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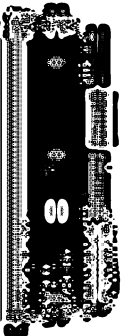
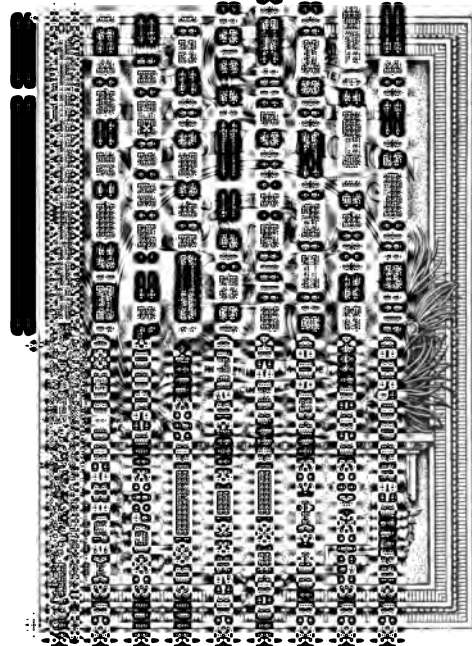
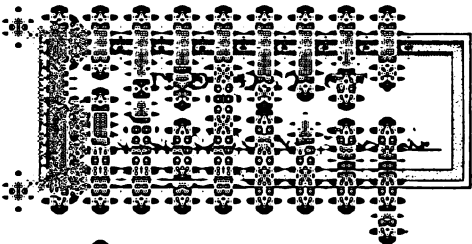
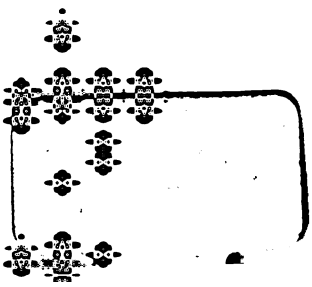
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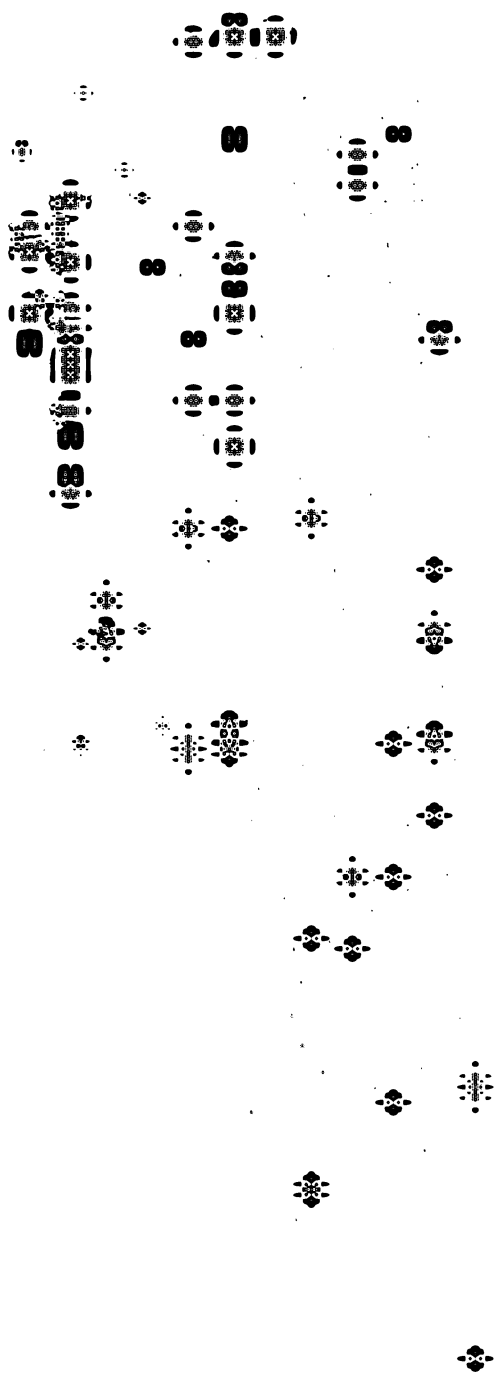
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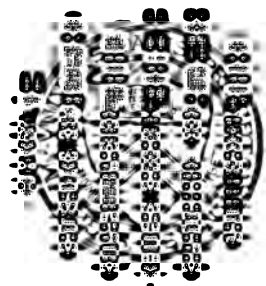








UNIVERSITY



SECOND YEAR

UNIVERSITY OF CALIFORNIA

Press of  
**THE JOHN C. WINSTON COMPANY**  
1006-1016 Arch Street  
Philadelphia

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## OFFICE HOURS

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THE PRESIDENT OF THE UNIVERSITY.—Seventy-nine Hall, Mondays, Tuesdays, and Wednesdays, from 2 to 4 P. M.

THE TREASURER OF THE UNIVERSITY.—University Offices, 9 A. M. to 1 P. M., 2.30 to 4 P. M.; Wednesdays and Saturdays, 9 A. M. to 12 M.; July 1 to September 1, 9 A. M. to 12 M.

THE REGISTRAR OF THE UNIVERSITY.—University Offices, 9 A. M. to 1 P. M., 2.30 to 4 P. M.; Wednesdays and Saturdays, 9 A. M. to 12 M.

THE SECRETARY OF THE UNIVERSITY.—Chancellor Green Library, 10 A. M. to 12 M., daily.

THE CURATOR OF GROUNDS AND BUILDINGS.—University Offices, 9 A. M. to 1 P. M., 2.30 to 4 P. M.; Wednesdays and Saturdays, 9 A. M. to 12 M.; July 1 to September 1, 9 A. M. to 12 M.

THE DEAN OF THE GRADUATE SCHOOL.—Chancellor Green Library, 10 to 11 A. M., Mondays and Thursdays.

THE DEAN OF THE FACULTY.—Dean's House, Mondays, Tuesdays, Thursdays, and Fridays, 2 to 4 P. M.; Wednesdays and Saturdays, 2 to 3 P. M.

THE COMMITTEE ON ENTRANCE, Professor Hoskins, Secretary,—22 Bank Street, 2 to 3 P. M. daily, except Saturdays, during June and September.

THE COMMITTEE ON ATTENDANCE meets in the Registrar's office, on Thursday, from 1.30 to 2.30 P. M. Requests and excuses for absence should be presented by the student in person.

THE COMMITTEE ON EXAMINATIONS AND STANDING, Professor Eisenhart, Secretary,—Nassau Hall, 2.30 to 4 P. M., Tuesdays and Thursdays.

THE COMMITTEE ON OUT-DOOR SPORTS, Professor McClenahan, Secretary,—The Palmer Physical Laboratory, Room 207, 12 M. to 1 P. M., Mondays, Tuesdays, and Wednesdays.

THE COMMITTEE ON NON-ATHLETIC ORGANIZATIONS, Professor Axson, Secretary,—10 Nassau Street, 2 to 3 P. M., Thursdays.

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THE UNIVERSITY FACULTY meets on the first Thursday of the University year, immediately after the opening exercises of the year, and thereafter on the first and third Mondays of each month, at 5 o'clock in the afternoon. The ACADEMIC FACULTY meets on call on the second Monday of each month, at 5 o'clock in the afternoon; the FACULTY OF THE SCHOOL OF SCIENCE, on the fourth Monday of each month, at the same hour. For calendar of Faculty meetings see page 12.

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For Catalogues of Princeton University apply to C. W. McALPIN, Esq., Secretary of the University, Princeton, New Jersey.

For information concerning Entrance and Courses of Instruction apply to H. N. VAN DYKE, Esq., Registrar of the University, Princeton, New Jersey.

For information concerning the Graduate School apply to PROFESSOR A. F. WEST, Dean of the Graduate School, Princeton, New Jersey.

## CALENDAR

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### 1908

- Sept. 14-26.* Examinations for removal of first and second term conditions.  
*Sept. 21-23.* Examinations for admission, held in Princeton only.  
*Sept. 23.* First term begins.  
*Sept. 24.* Formal opening exercises at 3 P. M.  
*Sept. 30.* Preliminary examination of candidates for the Doctor's degree.  
*Oct. 15.* Meeting of the Board of Trustees.  
*Oct. 22.* Commemoration Day.  
*Nov. 25, 2 P. M.-Nov. 30, 10 A. M.* Thanksgiving recess.  
*Nov. 26.* Thanksgiving Day.  
*Dec. 14-19.* Examinations for removal of entrance conditions.  
*Dec. 23, 2 P. M.* Christmas vacation begins.

### 1909

- Jan. 7, 10 A. M.* Christmas vacation ends.  
*Jan. 14.* Meeting of the Board of Trustees.  
*Feb. 10.* First term examinations end.  
*Feb. 11.* Second term begins.  
*Feb. 22.* Washington's Birthday.  
*March 31, 12 M.* Meeting of Faculty Committee on Course of Study.  
*April 7, 2 P. M.-April 13, 10 A. M.* Spring recess.  
*April 8.* Meeting of the Board of Trustees.  
*June 5.* End of Senior final examinations.

- June 11.* End of examinations of the three lower classes.
- June 12.* Junior Orator and Maclean Prize contests.
- June 13.* Baccalaureate Address by the President of the University in Alexander Hall.
- June 14.* Commencement meeting of the Board of Trustees—Class Day—Lynde Prize Debate.
- June 15.* 162nd Annual Commencement—Election of an Alumni Trustee—Annual meeting of the Literary Societies—Alumni luncheon.
- June 17-19.* Examinations for admission, held simultaneously in Princeton and elsewhere.
- Sept. 13-25.* Examinations for removal of first and second term conditions.
- Sept. 20-22.* Examinations for admission, held in Princeton only.
- Sept. 22.* First term begins.
- Sept. 23.* Formal opening exercises at 3 P. M.
- Sept. 29.* Preliminary examination of candidates for the Doctor's degree.
- Oct. 21.* Meeting of the Board of Trustees.
- Oct. 22.* Commemoration Day.
- Nov. 24, 2 P. M.-Nov. 29, 10 A. M.* Thanksgiving recess.
- Nov. 25.* Thanksgiving Day.
- Dec. 13-18.* Examinations for removal of entrance conditions.
- Dec. 22, 2 P. M.* Christmas vacation begins.

1910

- Jan. 6, 10 A. M.* Christmas vacation ends.
- Jan. 13.* Meeting of the Board of Trustees.
- Feb. 9.* First term examinations end.
- Feb. 10.* Second term begins.

- Feb. 22.* Washington's Birthday.  
*March 23, 2 P. M.—March 29, 10 A. M.* Spring recess.  
*March 30, 12 M.* Meeting of Faculty Committee on Course of Study.  
*April 14.* Meeting of the Board of Trustees.  
*June 4.* End of Senior final examinations.  
*June 10.* End of examinations of the three lower classes.  
*June 11.* Junior Orator and Maclean Prize contests.  
*June 12.* Baccalaureate Address by the President of the University in Alexander Hall.  
*June 13.* Commencement meeting of the Board of Trustees—Class Day—Lynde Prize Debate.  
*June 14.* 163rd Annual Commencement—Election of an Alumni Trustee—Annual meeting of the Literary Societies—Alumni luncheon.

#### FACULTY MEETINGS, 1908–1909

*All meetings but the first at 5 P. M.*

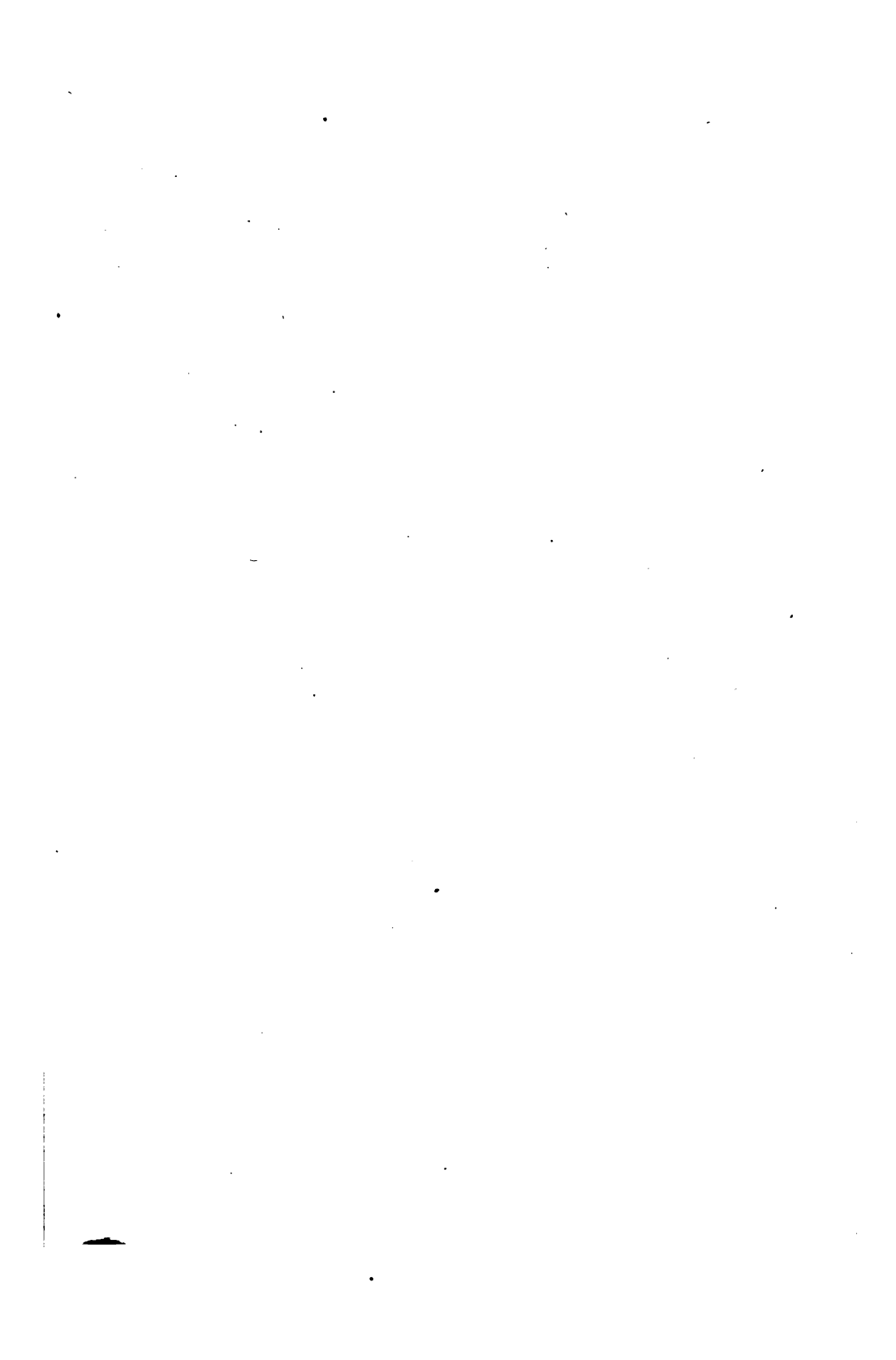
UNIVERSITY FACULTY: September 24, October 5, 19, November 2, 16, December 7, 21, January 18, February 1, 15, March 1, 15, April 5, 19, May 3, 17, June 7.

ACADEMIC FACULTY: October 12, November 9, December 14, January 11, February 8, March 8, May 10, June 14.

SCHOOL OF SCIENCE FACULTY: September 28, October 26, November 23, January 25, March 22, April 26, May 24.

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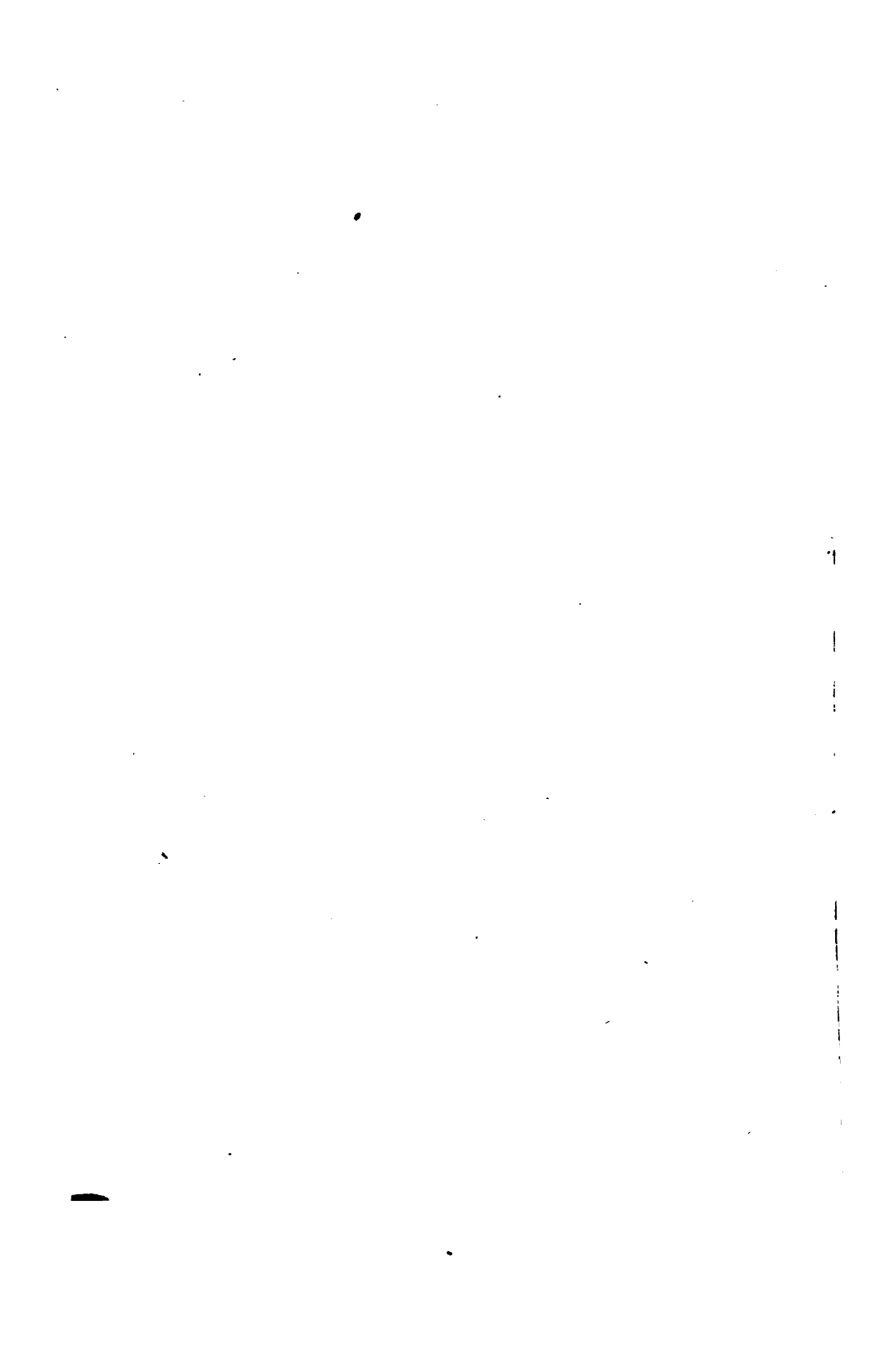
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**PART I**

**OFFICERS OF THE UNIVERSITY**



## TRUSTEES OF THE UNIVERSITY

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THE GOVERNOR OF THE STATE OF NEW JERSEY, *ex-officio*,  
PRESIDENT OF THE BOARD OF TRUSTEES.

WOODROW WILSON, Ph.D., Litt.D., LL.D., PRESIDENT OF THE  
UNIVERSITY and, in the absence of the Governor, President of  
the Board.

HON. JOHN A. STEWART, A.M., SENIOR TRUSTEE, New York,  
N. Y.

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DE WITT CLINTON BLAIR, A.M. .... Belvidere, N. J.  
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JOSEPH B. SHEA, A.B. .... Pittsburg, Pa.  
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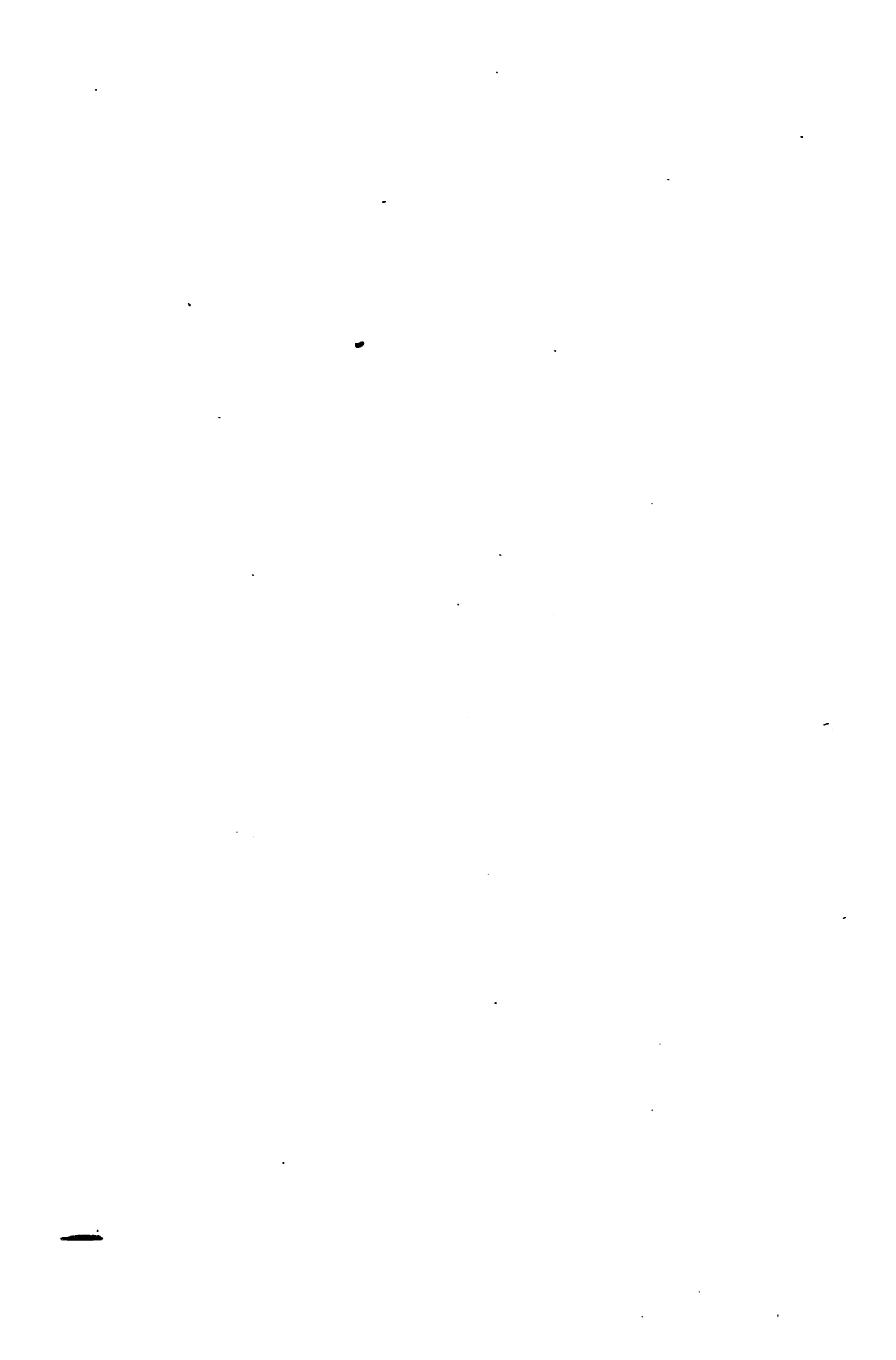
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**PART II**

**HISTORY AND GOVERNMENT OF  
THE UNIVERSITY**



## HISTORY AND GOVERNMENT OF THE UNIVERSITY

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At the beginning of the eighteenth century there were but three institutions of higher learning in the colonies: Harvard and Yale in New England and the College of William and Mary in Virginia.

In 1739 a movement was set on foot by the Synod of Philadelphia to establish a college in the Middle Colonies and a committee was appointed to carry out the plan. But, the time not being propitious, the project was laid aside without any material progress. In the meantime the Log College, founded near the Forks of Neshaminy, Pennsylvania, by the Rev. William Tennent, Sr., a graduate of Edinburgh University, and a member of the Synod of Philadelphia, had been so successful in its efforts to educate candidates for the ministry, that at the closing of the institution on the death of its founder the abandoned project of the erection of a college, to rank with Harvard, Yale, and William and Mary, was again taken up by its adherents, who had by this time withdrawn from the Synod of Philadelphia and had formed the Synod of New York. The project was this time successfully carried out, and in 1746 a charter was granted to the applicants, passing the great seal of the Province of New Jersey on October 22nd of that year, attested by Acting Governor John Hamilton, of His Majesty's Council. The original trustees named in this instrument were Messrs. William Smith, Peter Van Brugh Livingston, and William Peartree Smith, and the Reverends Jonathan Dickinson, John Pierson,

Ebenezer Pemberton, and Aaron Burr. By the terms of the charter these seven trustees were empowered to choose five others to complete the Board; and, knowing the hearty favor with which the friends of the defunct Log College viewed the movement, they elected to the vacancies the Reverends Gilbert Tennant and William Tennant, Jr., Samuel Blair, Richard Treat, and Samuel Finley, all but one, Mr. Treat, graduates of the Log College.

The charter of 1746 is not of record, although a memorandum of its grant appears among the records of charters and commissions in the office of the Secretary of State at Trenton, New Jersey. Its substance is set forth in an advertisement which appeared in the *Pennsylvania Gazette* of August 13, 1747, which is as follows:

*Philadelphia, August 13, 1746-7.*

*These are to give Notice to all concerned, That by His Majesty's Royal Charter for erecting a college in New-Jersey, for the instructing of youth in the learned languages, and in the liberal arts and sciences, bearing date October 22d, 1746, Messrs. William Smith, Peter Vanbrugh Livingston, William Peartree Smith, gent. and Messrs. Jonathan Dickenson, John Pierson, Ebenezer Pemberton, and Aaron Burr, ministers of the gospel, are appointed trustees of the said college; with full power to any four or more of them, to chuse five more trustees to the exercise of equal power and authority in the said college, with themselves. By virtue of which power, the said trustees, nominated in the charter, have chosen the Rev. Messrs. Gilbert Tennant, William Tennant, Samuel Blair, Richard Treat, and Samuel Finley, as trustees of the said college of New-Jersey:*

Which trustees are by the said charter, constituted a body corporate and politick, both in fact and name, with full power to act as such to all intents and Purposes, and rendred capable of a perpetual succession to continue forever. By which royal charter, there is authority given to the major part of any seven or more of the said trustees, and their successors conven'd for that purpose, to purchase, receive, and dispose of any possessions, tenements, goods and chattels, gifts, legacies, donations and bequests, rents, profits and annuities of any kind whatsoever, and to build



any house or houses, as they shall think proper, for the use of the said college. And also by the said charter is given to the major part of any seven or more of the said trustees and their successors, full power to chuse, and at pleasure to displace, a president, tutors, professors, treasurer, clerk, steward, and usher, with any other ministers, and officers as are usual in any of the universities or colleges in the realm of Great Britain.

And also by the said charter is given to the major part of any seven of the said trustees and their successors, full power to make any laws, acts and ordinances, for the government of the said college, as are not repugnant to the laws and Statutes of the realm of Great Britain, nor to the Laws of the Province of New-Jersey; provided, that no person be debarred any of the privileges of the said college on account of any speculative principles of religion; but those of every religious profession, having equal privilege and advantage of education in the said college. And also by the said charter, power is given to the major part of any seven of the said trustees and their successors, by their president, or any other appointed by them, to give any such degrees as are given in any of the universities or colleges in the realm of Great Britain, to any such as they shall judge qualified for such degrees; and power to have and use a common seal to seal and confirm diplomas or certificates of such degrees, or for any other use which they shall think proper.

And these may further notify all concern'd, that the said trustees have chosen the Rev. Mr. Jonathan Dickinson president, whose superior Abilities are well known; and Mr. Caleb Smith tutor of the said college; and that the college is now actually opened, to be kept at Elizabeth-Town, till a building can be erected in a more central place of the said province for the residence of the Students; that all who are qualified for it, may be immediately admitted to an academick education, and to such class and station in the college, as they are found upon examination to deserve; and that the charge of the college to each student, will be Four Pounds a year New-Jersey money, at Eight Shillings per ounce, and no more.

In the summer of 1747 Jonathan Belcher, Esq., the newly appointed Governor of New Jersey, arrived in the Colony, and at once manifested the deepest interest in the infant college. The original charter not being entirely

satisfactory, Governor Belcher granted a second, which passed the seal of the Province on September 14, 1746. The text of the Second Charter is as follows:

CHARTER OF THE TRUSTEES OF THE COLLEGE OF  
NEW JERSEY

**George the Second by the Grace of God of Great Britain** France and Ireland King Defender of the Faith etc. TO ALL TO WHOM these presents shall come. GREETING. WHEREAS sundry of our loving Subjects, well disposed and publick spirited Persons, have lately by their humble petition, presented to our trusty and well beloved Jonathan Belcher Esquire Governor and Commander in Chief of our province of New Jersey in America, represented the great Necessity of coming into some Method for encouraging and promoting a learned Education of our Youth in New Jersey, and have expressed their earnest Desire that a College may be erected in our said province of New Jersey in America, for the Benefit of the Inhabitants of the said Province and others, wherein Youth may be instructed in the learned Languages, and in the liberal Arts and Sciences. AND WHEREAS by the fundamental Concessions made at the first Settlement of New Jersey by the Lord Berkeley and Sir George Carteret then proprietors thereof, and granted under their Hands and the seal of the Said Province, bearing Date the Tenth Day of February in the Year of our Lord one thousand six hundred and Sixty four, it was, among other things conceded and agreed that "no Freeman within the said Province of New Jersey should at any time be molested, punished, disquieted, or called in Question for any difference in Opinion or Practice in Matters of religious Government, who do not actually disturb the civil peace of the said province, but that all and every such Person or Persons might from time to time and at all times thereafter freely and fully have and enjoy his and their judgments and Consciences, in Matters of Religion throughout the said Province they behaving themselves peaceable and quietly and not using this Liberty to Licentiousness, nor to the civil Injury or outward disturbance of others." As by the said Concessions on Record in the Secretary's Office of New Jersey at Perth Amboy in Lib. 3 Folio 66 &c, may appear. WHEREFORE, and for that the said Petitioners have also expressed their earnest Desire that those of every religious Denomination may have free and equal Liberty and Advantages of

Education in the said College, any different Sentiments in Religion notwithstanding: WE being, willing to grant the reasonable Request and Prayers of all our loving Subjects and to promote a liberal and learned Education among them. KNOW YE THEREFORE THAT WE, considering the Premises, and being willing for the future that the best Means of Education be established in our said Province of New Jersey for the Benefit and Advantage of the Inhabitants of our said Province and others; DO, of our special Grace certain Knowledge and mere Motion, by these Presents will, ordain, grant and constitute, that there be a College erected in our said Province of New Jersey, for the Education of Youth in the learned Languages and in the liberal Arts and Sciences, and that the Trustees of the Said College and their Successors for ever may and shall be one Body Corporate and politick in Deed Action and Name, and Shall be called and named, and distinguished by the Name of THE TRUSTEES OF THE COLLEGE OF NEW JERSEY. AND further, wee have willed given granted constituted and appointed, And this by our present CHARTER of our special Grace, certain Knowledge and mere Motion, WE DO, for us our Heirs and Successors, will, give, grant, constitute and ordain that there shall in the said College from henceforth for ever be a Body politick, consisting of Trustees of the said College of New Jersey. AND, for the more full and perfect Erection of the said Corporation and Body Politick consisting of Trustees of the College of New Jersey WE of our especial Grace, certain Knowledge and mere Motion, DO by these presents for us our Heirs and Successors create, make, ordain, constitute nominate, and appoint the Governor, and Commander in Chief of our said Province of New Jersey for the Time being, and also our trusty and well beloved John Reading, James Hude, Andrew Johnston, Thomas Leonard, John Kinsey, Edward Shippen, and William Smith Esquires, Peter Van Brugh Livingston, William Peartree Smith and Samuel Hazard Gentlemen, John Pierson, Ebenezer Pemberton, Joseph Lamb, Gilbert Tennent, William Tennent, Richard Treat, Samuel Blair, David Cowel, Aaron Burr, Timothy Jones, Thomas Arthur, Jacob Green, Ministers of the Gospel, to be Trustees of the said College of New Jersey. [Repealed clause relative to oaths omitted.] THAT no Meeting of the Trustees Shall be Valid or legal for doing any Business whatsoever unless the Clerk has duly and legally notified each and every Member of the Corporation, of such Meeting, and that before the entering on any Business the Clerk shall

certify such Notification under his Hand to the Board of Trustees. THAT the said Trustees have full Power and Authority, or any thirteen [number changed] or greater Number of them, to elect nominate and appoint, and associate unto them any Number of Persons as Trustees, upon any Vacancy, so that the whole number of the Trustees exceed not twenty-three [altered to twenty-seven], whereof the president of the said College for the Time being to be chosen as hereafter mentioned, to be one, and twelve of the Said Trustees to be always Such persons as are Inhabitants of our said Province of New Jersey. AND WE DO FURTHER of our especial Grace, certain Knowledge, and meer Motion, for us our Heirs and Successors, will, give grant, and appoint, that the said Trustees and their Successors shall for ever here after be, in Deed, Fact, and Name a Body Corporate and Politick, and that they the said Body Corporate and Politick Shall be known and distinguished in all Deeds. Grants, Bargains, Sales, Writings, Evidences, Muniments, or otherwise howsoever, and, in all Courts for ever hereafter, plead and be impleaded by the Name of the Trustees of the College of New Jersey. AND that they the said Corporation, by the Name aforesaid, Shall be able, and in Law capable, for the use of the said College to have, get, acquire, purchase, receive, and possess Lands, Tenements, Hereditaments, Jurisdictions and Franchises for themselves, and their Successors, in Fee Simple or otherwise howsoever; AND to purchase receive or build any House or Houses, or any Other Buildings as they Shall think needfull or convenient for the Use of the Said College of New Jersey, and in such Place or places in New Jersey, as they the said Trustees shall agree upon. AND also to receive and dispose of any Goods, Chattles and other things of what Nature soever for the Use aforesaid, and receive any Rents, Profits, Annuities, Gifts, Legacies, Donations, and Bequests of any kind whatsoever for the Use aforesaid, so nevertheless the yearly clear Value of the Premises do not exceed the sum of two thousand Pounds Sterling [amount changed]. AND therewith or otherwise to support and pay (as the said Trustees and their Successors or the major Part of such of them as (according to the Provision herein afterwards) are regularly convened for that purpose shall agree and see Cause) the President, Tutors, and other Officers or Minister of the said College, their respective annual Salaries or Allowance and all such other necessary and contingent Charges as from time to time Shall arise and accrue relating to the Said College. AND also to grant, bargain, Sell,

let, set, or assign, Lands Tenements, or Hereditaments Goods or Chattles, contract or do all other things whatsoever, by the Name aforesaid and for the Use aforesaid, in as full and ample Manner to all Intents and Purposes, as any natural Person or other Body Politick or Corporate is able to do, by the Laws of our Realm of Great Britain or of our said Province of New Jersey. AND OF OUR FURTHER Grace, certain Knowledge, and meer Motion, to the Intent that our said Corporation and Body Politick may answer the end of their Erection and Constitution, and may have perpetual Succession and continue for ever. We do for us our Heirs and Successors hereby will, give, and grant unto the said Trustees of the College of New Jersey, and to their Successors for ever, that when Any thirteen [number changed, and so below wherever thirteen stands] of the said Trustees or of their Successors are convened and met together as aforesaid for the Service of the said College, the Governor and Commander in Chief of our said Province of New Jersey, and in his Absence the President of the said College, and in the absence of the said Governor and President, the eldest Trustee present at such Meeting, from time to time, Shall be president of the said Trustees at all their Meetings, and at any time or times such thirteen Trustees convened and met as aforesaid Shall be capable to act as fully and amply to all Intents and Purposes, as if all the Trustees of the said College were personally present. PROVIDED always that a Majority of the said thirteen Trustees be of the said Province of New Jersey, except, after regular Notice they fail of coming, in which Case those that are present are hereby empowered to act, the different place of their Abode notwithstanding, and all affairs and Actions whatsoever under the Care of the said Trustees shall be determined by the Majority or greater Number of those thirteen so convened and met together, the President whereof shall have no more than a single vote. AND WE DO for us our Heirs and Successors hereby will, give and grant full Power and Authority to any six or more of the said Trustees to call Meetings of the said Trustees from time to time and to order Notice to the said Trustees of the Times and Places of Meeting for the Service aforesaid. AND ALSO WE DO hereby for us our Heirs and Successors, will, give, and grant to the said Trustees of the College of New Jersey, and to their Successors for ever, that the Said Trustees, do elect nominate, and appoint such a qualified Person as they or a major Part of any thirteen of them, convened for that purpose as above directed, Shall

think fit, to be the President of the said College, and to have the immediate Care of the Education and Government of such Students as shall be sent to, and admitted into the said College for Instruction and Education. AND ALSO that the said Trustees do elect nominate and appoint so many Tutors and Professors to assist the President of the said College, in the Education and Government of the Students belonging to it, as they the said Trustees or their Successors or the major part of any thirteen of them, which shall convene for that purpose as above directed, Shall from time to time and at any time hereafter think needful and serviceable to the Interests of the said College.

AND ALSO THAT THE SAID TRUSTEES AND THEIR SUCCESSORS, or the major Part of any thirteen of them, which shall convene for that purpose as above directed, Shall at any time displace and discharge from the Service of the said College, such President Tutors and Professors, and to elect others in their Room and Stead AND ALSO that the said Trustees or their Successors, or the major Part of any thirteen of them which Shall convene for that Purpose as above directed, do from time to time as occasion Shall require, elect, constitute and appoint a Treasurer, a Clerk, an Usher, and a Steward for the said College, and appoint to them and each of them their respective Business and Trusts, and displace and discharge, from the Service of said College, such Treasurer, Clerk, Usher, or Steward, and to elect others in their Room and Stead, which President, Tutors, Professors, Treasurer, Clerk, Usher, and Steward, so elected and appointed, WE DO for us our Heirs and Successors, by these Presents constitute and establish in their several Offices, and do give them and every of them full Power and Authority to exercise the same in the said College of New Jersey, according to the Direction and during the Pleasure of the said Trustees, as fully and freely as any other the like Officers in our Universities or any of our Colleges in our Realm of Great Britain lawfully may and ought to do. AND ALSO that the said Trustees and their Successors or the major Part of any thirteen of them, which shall convene for that Purpose as above directed, as often as one or more of the said Trustees Shall happen to dye, or by removal or Otherwise Shall become unfit or incapable according to their Judgment to serve the Interest of the said College, do, as soon as conveniently may be after the Death, Removal, or such Unfitness or Incapacity of such Trustee or Trustees to serve the Interest of the said College, elect and appoint such other

Trustee or Trustees as shall supply the place of him or them so dying, or Otherwise becoming unfit or incapable to serve the Interest of the said College; and every Trustee so elected and appointed, Shall by Vertue of these presents and of such Election and Appointment be vested with all the Power and Privileges which any of the other Trustees of the said College are hereby invested with, AND WE DO FURTHER of our especial Grace, certain Knowledge and meer Motion, will, give, and grant, and by these Presents do, for us our Heirs and Successors, will, give, and grant, unto the said Trustees of the College of New Jersey, that they and their Successors, or the major Part of any thirteen of them, which Shall convene for that Purpose, as above directed, may make, and they are hereby fully impowered from Time to Time, freely and lawfully to make and establish such Ordinances, Orders, and Laws, as may tend to the good and wholesome Government of the said College, and all the Students and the several officers and Ministers thereof, and to the public Benefit of the same, not repugnant to the Laws and Statutes of our Realm of Great Britain or of this our Province of New Jersey, and not excluding any Person of any religious Denomination, whatsoever from free and equal Liberty and Advantage of Education, or from any of the Liberties Privileges or Immunities of the said College on Account of his or their being of a religious profession different from the said Trustees of the said College, and Such Ordinances, Orders, and Laws, which Shall be so as aforesaid made, WE DO by these Presents for us our Heirs and Successors ratify, allow of, and confirm as good and effectual to oblige and bind all the said Students, and the several Officers and Ministers of the said College, AND WE DO hereby authorize and empower the said Trustees of the College, and the President, Tutors and Professors by them elected and appointed to put such Ordinances and Laws in Execution to all Proper Intents and Purposes. AND WE DO FURTHER of our especial Grace, certain Knowledge, and meer Motion, will, give, and grant, unto the said Trustees of the College of New Jersey that for the Encouragement of Learning and animating the Students of the said College to Diligence Industry and a laudable Progress in Literature, that they and their Successors, or the major Part of any thirteen of them convened for that Purpose as above directed, do, by the President of the said College for the time being or by any other deputed by them give and grant any such Degree and Degrees to any of the Students of the said College, or to any others by

them thought worthy thereof as are usually granted in either of our Universities or any other College in our Realm of Great Britain, and that they do sign and seal Diplomas or Certificates of such Graduations to be kept by the Graduates as Perpetual Memorials or Testimonials thereof. AND FURTHER of our especial Grace, certain Knowledge, and meer Motion, WE DO by these Presents for us our Heirs and Successors give and grant unto the Said Trustees of the College of New Jersey and to their Successors, that they and their Successors Shall have a common Seal under which they may pass all Diplomas and Certificates of Degrees, and all other the Affairs and Business of and concerning the said Corporation, or of and concerning the said College of New Jersey, which shall be engraven in Such Form and with such Inscription as Shall be devised by the said Trustees of the said College, or the major Part of any thirteen of them, convened for the Service of the said College as above directed. AND WE DO FURTHER for us our Heirs and Successors give and grant unto the said Trustees of the College of New Jersey and their Successors, or the major Part of any thirteen of them, convened for the Service of the College as above directed, full Power and Authority from time to time to nominate and appoint all other inferior Officers and Ministers which they shall think to be convenient and necessary for the Use of the College, not herein particularly named, or mentioned, and which are accustomed in our Universities, or in any of our Colleges in our Realm of Great Britain, which Officers or Ministers we do hereby empower to execute their Offices or Trusts as fully and freely as any other the like officers or Ministers in any of our Universities, or any other College in our Realm of Great Britain lawfully may or ought to do.

AND LASTLY our express Will and Pleasure is, and we do by these Presents for us our Heirs and Successors, give and grant unto the said Trustees of the College of New Jersey, and to their Successors forever, that these our Letters Patent or the Enrollment thereof shall be good and effectual in the Law to all Intents and Purposes, against us our Heirs and Successors, without any other License, Grant or Confirmation, from us our Heirs and Successors hereafter by the said Trustees to be had or obtained; Notwithstanding the not reciting or Misrecital, or not naming or mis-naming of the aforesaid Offices, Franchises, Privileges, Immunities, or other the Premises or any of them, and notwithstanding a Writ of Ad quod Damnum hath not issued



forth to enquire of the premises or anv of them, before the en sealing hereof; Any Statute, Act, Ordinance or Provision, or any other Matter or thing to the contrary notwithstanding. TO have hold and enjoy all the singular the Privileges, Advantages, Liberties, Immunities, and all other the Premises herein and hereby granted and given or which are meant mentioned or intended to be herein and hereby given and granted unto them the said Trustees of the said College of New Jersey and to their Successors forever. IN TESTIMONY whereof We have caused these our Letters to be made Patent. and the Great Seal of our said Province of New Jersey to be hereunto affixed. WITNESS our trusty and well beloved JONATHAN BELCHER Esquire Governor and Commander in Chief of our said Province of New Jersey this fourteenth day of September in the twenty second Year of our Reign, and in the Year of our Lord one thousand seven hundred and forty eight.

I have perused and Considered the within Charter of Incorporation, and find nothing Contained therein Inconsistent with his Majesty's Interest or the Honor of the Crown.

J. WARRELL, *At Genll.*

September ye 13th. 1748.—This charter having been read in Council was consented to and approved of.

CHA. READ, *Cl. Con.*

Lett the Great Seal of the Province of New Jersey be Affixed to this Charter.

J. BELCHER.

To the Secretary of the Province of New Jersey.

This second charter had been sought by the original trustees in order to increase their number, to give other religious communions a share in the administration, and to make the lay trustees equal in number to those who were clergymen. Numerous doubts, besides, had been expressed as to the validity of the first charter, which had been granted by the President of the Council, then acting as governor, and which had never been recorded *verbatim* in the records of the Secretary of State. The interest taken by Governor Belcher in the affairs of the institution and the wise forethought of its founders, by the execution of the second and more comprehensive document, effectually

removed all doubts as to the validity of their powers. After the Revolution this charter was confirmed and renewed by the Legislature of the State of New Jersey.

Upon the granting of the first charter measures had at once been taken to open the College, and on February 2, 1747, a notice appeared in the *New York Gazette Revived in the Weekly Post Boy*, notifying "any Person or Persons who are qualified by preparatory Learning for Admission, that some time in May next at latest they may be there admitted to an Academic Education." On the 20th of April, the following notice was given through the same journal:

This is to inform the Publick, That the Trustees of the College of New-Jersey, have appointed the Reverend Mr. Jonathan Dickinson, President of the said College; which will be opened the fourth week in May next, at Elizabeth-Town: At which Time and Place, all Persons suitably qualified, may be admitted to an Academic Education.

Hatfield, in his *History of Elizabeth*, states that "the first term of the College of New Jersey was opened at Mr. Dickinson's house, on the south side of the old Rahway road, directly west of Race street." President Dickinson's term of administration was brief, commencing in April, 1747, and closing with his death on October 7, 1747. Upon his decease the Rev. Aaron Burr assumed charge of the College, which was removed from Elizabethtown to Newark. To Mr. Burr belongs the credit for the organization of the curriculum, the ceremonies of the College, and its discipline.

The first Commencement was held at Newark, November 9, 1748, and was celebrated with much ceremony. The *New York Gazette Revived in the Weekly Post Boy* published an account of the proceedings of this Commencement in detail, together with the inaugural address of President Burr, in which address he emphasized broad and

liberal education as the firmest foundation of the Commonwealth, and concluded with a eulogy of the generosity of their patron, Governor Belcher. The graduating class numbered six.

A set of laws for the government of the College, probably prepared by Burr, were adopted by the trustees at this time. One, relating to the admission of students, gives a fair idea of the entrance requirements of the period:

1. None may be expected to be admitted into College but such as being examined by the President and Tutors shall be found able to render Virgil and Tully's Orations into English; and to turn English into true and grammatical Latin; and to be so well acquainted with the Greek as to render any part of the four Evangelists in that language into Latin or English; and to give the grammatical connection of the words.

The Trustees also announced "That the annual Commencement for the future be on the last Wednesday of September, and that the next Commencement be held at New Brunswick."

The need of funds being urgent, application was made to the Provincial Assembly for authority to raise by a lottery a sum not exceeding eight thousand dollars; but the request was denied and the lottery was transferred to Philadelphia. Several years later, in 1761-2, the Assembly granted this privilege, as did also the General Court of Connecticut (1753-4).

In casting about for a desirable site for the location of the Institution, the situation of Princeton at once commended itself. Not only was it midway between the cities of New York and Philadelphia and its one street a part of the great highway between them, but it occupied a central position upon rising ground, insuring healthful surroundings, on the line dividing East and West Jersey. New Brunswick, because of its greater size and somewhat similar though not so favorable location,

claimed the first consideration; but the trustees, well aware of the pecuniary value of a college to any town in which it should be placed, were desirous of securing the full advantage accruing from this fact, and voted, September 26, 1750:

That a proposal Be made to the Towns of Brunswick and Prince-Town to try what Sum of Money They can Raise for Building of the College by the next meeting that the trustees may Be Better able to Judge in Which of these places to fix the place of the College.

At the next meeting of the Board, held in Trenton, May 15, 1751, the following resolution was adopted:

Voted that New-Brunswick be ye Place for the Building of the College, provided the Inhabitants of sd. Place agree with the Trustees upon the following Terms, Viz. that they secure to the College a Thousand Pounds proc. Money, ten acres of land contiguous to the College, and two hundred acres of Wood Land, the furthest Part of it not to be more than three Miles distant from the Town; or such a Quantity of Wood Land as the Trustees of the College shall judge Equivalent to two hundred Acres of Wood Land offered to be given by some gentleman in Prince Town.

Mr. Jonathan Sergeant, the Treasurer, was ordered to view the land at Princeton and New Brunswick and report to the Board. The citizens of the latter place do not appear to have been eager to accept the terms imposed by the Board, and, failing to comply by the time allowed, it was voted, September 27, 1752:

That the College be fixed at Princeton upon Condition that the Inhabitants of sd. Place secure to the Trustees that two Hundred Acres of Woodland, and that ten Acres of clear'd Land which Mr. Sergeant view'd; and also one thousand Pounds proc. Money.

This action finally settled the question of location, and, the citizens of the town having complied with the terms

proposed by the Board, steps were at once taken for the erection of the first college building. The plans drawn by Dr. Shippen and Robert Smith were accepted by the trustees. These, according to the Minutes of July 22, 1754, specified "That the College be built of Brick if good Brick can be made at Princeton & if Sand can be got reasonably cheap. That it be three story high & without any Cellar;" but at a subsequent meeting it was decided that stone be used for the College edifice. The land for this building was given by Nathaniel Fitz Randolph, who also donated twenty pounds currency. Ground was broken on the 29th of July, 1754, under the direction of Joseph Morrow, and soon afterward the corner-stone was laid, in the presence of Thomas Leonard, John Stockton, John Horner, William Worth (stone mason), Nathaniel Fitz Randolph, and many others. It was the desire of the trustees to name the new building after the patron and benefactor of the College, Governor Belcher, but with rare modesty he declined the honor, requesting the Board to call the edifice "Nassau Hall," as expressing "the Honour we retain, in this remote Part of the Globe to the immortal Memory of the Glorious King William the 3d., who was a Branch of the illustrious House of NASSAU." This request was complied with in the following terms:

Whereas his Excellency Govr. Belcher has signified to us, his declining to have the Edifice we have lately erected at Princeton for the Use and Service of New-Jersey College to be called after his Name, and has desired and for Good Reasons that it should be call'd after the Name of the illustrious House of NASSAU; It is therefore voted, and is hereby ordered that the sd. Edifice be in all Time to come called and be known by the Name of NASSAU HALL.

The College was completed and the students removed from Newark to Princeton in the fall of 1756. The expenses incurred consequent upon the erection of so

considerable a building, then the largest structure of its kind in the colonies, had prompted the Board, in 1753, to send the Rev. Gilbert Tennent and the Rev. Samuel Davies to Great Britain to solicit funds in behalf of the Institution. This undertaking was successful, and the money acquired sufficient to defray in part the cost of the building.

The death of President Burr occurred September 24, 1757, and three days later the trustees at their stated meeting elected the Rev. Jonathan Edwards, of Stockbridge, Massachusetts, to fill the vacancy.

President Edwards arrived at Princeton on the 16th of February, 1758, and assumed the duties of his office. One week later he was inoculated for small-pox and died on the 22d of March. On the 9th of May, 1759, the Rev. Samuel Davies was elected to the Presidency and on the 26th of July entered upon the duties of his office. He died February 4, 1761.

During his administration there were no material changes in the course of instruction; more attention, however, was given to the cultivation of English composition and elocution. President Davies gave much of his time to the building up of a suitable library for the College.

The Rev. Samuel Finley had been proposed for the Presidency at the meeting at which Mr. Davies was elected, and upon the death of the latter he was unanimously chosen as his successor. His administration lasted until the 17th of July, 1766, the date of his death. During this period the course of instruction remained the same as in former years, and the College maintained a steady growth.

On the 19th of November, 1766, the trustees elected to the Presidency, John Witherspoon, D.D., LL.D., of Paisley, Scotland. Dr. Witherspoon at first declined; a year later,

however, he accepted a reelection and became sixth President of the College of New Jersey.

Dr. Witherspoon arrived in America during the summer of 1768 and was inaugurated on the 17th of August. The shadow of the approaching Revolution was already spreading over the Colonies, and among the students of this period (1770), were many who became leading figures in the great struggle and in the solution of the constitutional problem which at the close of the war offered itself to every thoughtful mind. James Madison, Aaron Burr, Gunning Bedford, William Bradford, Philip Freneau, Hugh Henry Brackenridge, Henry Lee, Morgan Lewis, and Henry Brockholst Livingston were some of the pupils over whom Witherspoon was called to preside.

For nearly eight years the varying fortunes of the Revolution told heavily on the College. The course of instruction was interrupted by the presence of both armies, Nassau Hall was wrecked, the library scattered and destroyed, and the philosophical apparatus, including the famous orrery made by David Rittenhouse of Philadelphia, ruined. During this period but one Commencement was omitted, that of 1777. The members of the graduating class of that year, seven in number, received their degrees a few months later and are accounted graduates for that year.

College orders were regularly resumed after the enemy had abandoned their occupation of the State, although, according to President Witherspoon's report, given through the press in 1779, the number of students did not at any time exceed ten.

The impoverished condition of the country consequent upon the war of the Revolution, laid a heavy burden upon the shoulders of the President and trustees. Great credit is due to the perseverance and untiring energy displayed by President Witherspoon throughout his

administration in meeting and overcoming these difficulties. He died November 15, 1794.

His successor, Samuel Stanhope Smith, D.D., LL.D., a graduate of the College in the Class of 1769, was elected to the Presidency May 6, 1795. During his term of office the course of instruction was broadened and the curriculum enlarged. Among the most important changes was the establishment of a professorship in chemistry. This was the first provision for regular instruction in this branch of science made by an American college. A grant of six hundred pounds per annum for three years was secured from the Legislature of the State, to reimburse the College for the damage sustained to its buildings, library, and philosophical apparatus during the Revolution. This appropriation, however, was not equal by a thousand dollars to the expense of repairing the philosophical apparatus.

On the 6th of March, 1802, Nassau Hall was destroyed, save for the outer walls, by fire, together with almost the entire library and part of the philosophical apparatus. Steps were at once taken to raise funds wherewith to repair the loss, and an elaborate address "To the Inhabitants of the United States" was issued by the trustees. In this appeal they were so far successful that by the 4th of April, 1804, more than forty-four thousand dollars had been collected. The rebuilding of Nassau Hall was completed during the summer of 1804.

Dr. Smith resigned the Presidency August 14, 1812, and was succeeded by Ashbel Green, D.D., LL.D., a graduate of the College (1783). Dr. Green tendered his resignation to the trustees September 25, 1822. During this period of ten years the institution maintained a steady growth, both in the number of students and in the income from its invested funds.

On the 26th of September, 1822, the trustees elected



to the Presidency the Rev. John Holt Rice of Richmond, Virginia. Dr. Rice, being in ill-health, declined and the duties of the office for a time devolved upon the Vice-President, Philip Lindsley.

James Carnahan, D.D., LL.D., of the Class of 1800, was elected upon the 12th of May, 1823, and was inaugurated President August 6th of that year. President Carnahan's term of office was one of marked increase in the growth and development of the College. During his administration of thirty-one years, sixteen hundred and thirty-four students were graduated from the Institution; the teaching corps was increased from two professors and two tutors, in 1823, to six professors, two assistant professors, and four tutors in 1854, and not less than seventy-five thousand dollars was expended in the erection of new buildings, the purchase of apparatus and books, and the improvement of the College grounds.

A department of law was established in 1846, under the direction of the Hon. Joseph C. Hornblower, Chief Justice of the Supreme Court of New Jersey, James S. Green, and Richard S. Field, Attorneys. The degree of Bachelor of Laws was given for two years' resident study. There being no funds available for the support of this department, the lectures were abandoned in 1852. During this period the degree of Bachelor of Laws was conferred upon seven persons.

President Carnahan resigned in 1853, but upon the request of the Board retained the office until the Commencement of 1854.

John Maclean, D.D., LL.D., was elected to the Presidency December 20, 1853, and inaugurated Wednesday, June 28, 1854. Dr. Maclean resigned December 11, 1867, retaining the office until the Commencement of 1868. During this period the number of students increased from 247 in 1854, to 281 in 1868. The Civil

War deprived the institution of a large proportion of its students and is largely responsible for the small increase. Four new professorships were established, having a total endowment of \$195,000, and the teaching corps increased to twenty. The movement to establish free scholarships in the College, undertaken during the last years of President Carnahan's administration, was successful in obtaining \$60,000. The interior of Nassau Hall was destroyed by fire for the second time on the night of the 10th of March, 1855. The damage to the building, the walls alone standing, amounted to above \$50,000, upon which there was an insurance of \$12,000. The work of rebuilding Nassau Hall was completed during the spring of 1860.

James McCosh, D.D., LL.D., Litt.D., of Queen's College, Belfast, was elected President of the College on the 29th of April, 1868. Dr. McCosh resigned the office in 1888, after an administration of twenty years. Under President McCosh the number of students increased from 281 in 1868, to 603 in 1887. Gifts amounting to upwards of three millions of dollars were contributed during this period, of which one million was expended in the erection of fourteen buildings. Among the more important changes in the curriculum were the introduction of the system of elective studies (1870); the founding of the John C. Green School of Science (1873), offering courses leading to the degree of Bachelor of Science, Civil Engineer, and Master of Science; and the establishment of the Graduate Department (1877). The Faculty was enlarged from ten professors and seven tutors in 1868, to thirty-one professors, four assistant professors, and five tutors and instructors—a total of forty—in 1888.

Francis Landey Patton, D.D., LL.D., twelfth President of the College of New Jersey, was elected February

9, 1888, and inaugurated June 20, 1888. President Patton resigned the office June 9, 1902. During his administration of fourteen years the student enrolment increased from 603 in 1888, to 1354 in 1902. The Faculty numbered forty in 1888; in 1902, one hundred. Seventeen new buildings were erected during President Patton's incumbency.

In October, 1896, the one hundred and fiftieth anniversary of the signing of the First Charter of the College of New Jersey was celebrated; on the anniversary day, October 22, 1896, the title of Princeton University was assumed.

In 1900 a plan for Alumni Representation in the Board of Trustees was adopted. By this plan five trustees were added to the Board, who hold office for five years and are known as "Alumni Trustees"; one trustee is elected yearly.

Woodrow Wilson, Ph.D., Litt.D., LL.D., was elected to the Presidency in June, 1902, and inaugurated on the 25th of October of the same year.

The title of the Corporation as now constituted is The Trustees of Princeton University.

### FORM OF BEQUEST

I give and bequeath to the trustees of Princeton University, located at Princeton, in the State of New Jersey, the sum of..... dollars, the same to be free from succession tax, if any should exist thereon, and to be used as the Board of Trustees shall determine (or, in the case of a special gift, stating the terms of the gift).



## **PART III**

### **TERMS OF ADMISSION**



## TERMS OF ADMISSION TO PRINCETON UNIVERSITY

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### ENTRANCE FEE

Each candidate who proposes to take the Princeton Entrance Examination in June should send to the Registrar before June 1st:

1. A statement containing his full name and the name and address of his parent, or guardian, and of his school. If he has taken preliminary examinations, this should be stated.

2. A fee of five dollars, either by money order or cheque payable to *Princeton University*.

In return he will receive a receipt from the Registrar which he must show to the examiner when he registers at the examination.

Candidates who have not sent this statement and fee may be admitted to the examinations; in such cases the reports of the results of the examinations may be delayed, and in no case will a report be sent until the fee is received.

Each candidate who takes his examination in September must pay the fee, unless he has already paid it in June, but those who have paid the fee in June shall be admitted without further payment to the September examinations of the same year. Candidates taking examinations in different years shall pay the fee each year.

Each candidate admitted to any class otherwise than by the regular examinations of the University (*e. g.*, on

certificate of the College Entrance Examination Board) shall pay an admission fee of five dollars.

#### ENTRANCE EXAMINATIONS

All candidates for examination must report at the designated place half an hour before their first examination begins. Examinations for admission will be written, with supplementary oral examinations if needed.

In June, 1909, the order of examination will be as follows:

Latin, *Thursday, June 17th*, 9 A. M. to 1 P. M.  
Algebra and Plane Geometry, *Thursday, June 17th*,  
2 to 6 P. M.

Greek, *Friday, June 18th*, 8.30 A. M. to 12.30 P. M.  
Trigonometry, *Friday, June 18th*, 8.30 to 10.30 A. M.  
Solid Geometry, *Friday, June 18th*, 10.30 A. M. to  
12.30 P. M.

French, *Friday, June 18th*, 2 to 4 P. M.

German, *Friday, June 18th*, 4 to 6 P. M.

English, *Saturday, June 19th*, 8.30 to 10.30 A. M.

History, *Saturday, June 19th*, 10.30 A. M. to 12.30  
P. M.

Chemistry, Physics, *Saturday, June 19th*, 2 to 4 P. M.

In September, 1909, the same order will be followed, beginning with Latin on Monday, September 20th, at 2 P. M., except that the examinations in Chemistry and Physics will be held on Monday evening, September 20th, from 8 to 10 P. M.

In June, 1910, the order of examination will be changed as follows:

Algebra and Plane Geometry, *Wednesday, June 15th*,  
9 A. M. to 1 P. M.

English, *Wednesday, June 15th*, 2.30 to 5.30 P. M.



Latin, *Thursday, June 16th, 8.30 A. M. to 12.30 P. M.*

French A, *Thursday, June 16th, 2 to 4 P. M.*

German A, *Thursday, June 16th, 4 to 6 P. M.*

French B, German B, *Thursday, June 16th, 2 to 5 P. M.*

Greek, *Friday, June 17th, 8.30 A. M. to 12.30 P. M.*

Trigonometry, *Friday, June 17th, 8.30 to 11 A. M.*

Solid Geometry, *Friday, June 17th, 11 A. M. to 1 P. M.*

History, *Friday, June 17th, 2.30 to 5.30 P. M.*

Chemistry, Physics, *Saturday, June 18th, 8.30 to 11.30 A. M.*

In September, 1910, the same order will be followed, beginning with Algebra and Plane Geometry on Monday, September 19th, at 9 A. M.

All candidates are expected to appear promptly at the time set for an examination. No candidate will be allowed to enter an examination later than an hour after the scheduled time; and no candidate who has seen a question paper will be allowed to leave the examination until an hour and a half shall have elapsed.

Applicants who have any conditions or other deficiencies from the June examination are required to remove them at the September entrance examinations.

Simultaneously with the June entrance examinations in Princeton, examinations will also be held in the cities of New York, Philadelphia, Pittsburg, Albany, Buffalo, Chicago, Cincinnati, Cleveland, Denver, Harrisburg, Indianapolis, Kansas City, Louisville, Newark, Omaha, Portland, Ore., St. Louis, St. Paul, San Antonio, Scranton, Syracuse, Washington, Wilkes-Barre, and at such preparatory schools and other cities as the number of candidates or the distance from other places of examination may justify. The places in which the examinations are to be held can be learned by

application to the Registrar. No examinations are held outside of Princeton at other than the places and time specified above.

Examinations at other than the specified times are granted only under very exceptional circumstances. An applicant for examination at a special time must present a satisfactory reason and obtain permission by writing to the Registrar and is required to pay into the treasury a fee of \$10 for every subject, or part thereof, in which an examination is set. No special examinations are held outside of Princeton. \*

All candidates for admission to any class, or as special students, must bring with them satisfactory testimonials of good moral character, preferably from their last instructors, and if the candidate has been a member of another college, university, or similar institution, he must produce a certificate from its president or faculty that he is free from censure in that institution.

Each applicant for admission should be provided with a statement, signed by his teacher, as to his fitness to be examined in each of the subjects which he offers. The statement is merely for the information of the examiners, and is in no sense an admission certificate. Blank forms may be obtained from the Registrar.

No candidate is admitted into the undergraduate department in regular class standing without examination and a vote of the Faculty.

#### PRELIMINARY EXAMINATIONS

At the examinations in June and September, candidates intending to enter the Freshman class one year later are admitted to examination in a portion of the subjects required for entrance. Certificates as to preparation in the subjects in which the candidate wishes to be examined should be presented.

## FRESHMAN ENTRANCE REQUIREMENTS

The following entrance requirements are defined for the most part in close accordance with recommendations of the National Educational Association and of the College Entrance Examination Board. It is recommended that candidates be prepared for examination on the requirements as specified, but equivalents will be accepted. The University will in all cases be the judge of the equivalence of subjects offered as substitutes for the specified requirements.

There are three regular forms of entrance to the courses leading to degrees in Princeton University, *viz.* (1) Entrance for those who offer Greek and are candidates for the degree of A.B. (2) Entrance for those who do not offer Greek and are candidates for the degree of Litt.B. or B.S. (3) Entrance for those who are candidates for the degree of C.E.

The Freshman entrance requirements for candidates for the various degrees given in course in Princeton University are as follows: (The detailed statement of each subject is given on a later page.)

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FRESHMAN ENTRANCE REQUIREMENTS FOR THE COURSE  
LEADING TO THE DEGREE OF A.B.

HISTORY. One and only one of:

1. American History and Civil Government,
2. English History,
3. Ancient History.

GREEK.

1. Greek Grammar,
2. Greek Composition A,
3. Xenophon,
4. Homer A.

## LATIN.

1. Latin Grammar,
2. Latin Composition A,
3. Cæsar (four books),
4. Cicero A (six orations),
5. Virgil A (six books).

## ENGLISH.

1. English A (reading),
2. English B (careful study).

## MODERN LANGUAGES. One and only one of:

1. French A,
1. German A.

(For maximum requirements leading to advanced standing in French, see French B, and in German, see German B. Any candidate for admission to the course leading to the A.B. degree who passes either French B, or German B, at entrance may elect an advanced course in the subject passed by him, or may begin the other modern language which he did not offer for entrance.)

## MATHEMATICS.

1. Algebra to Quadratics, A I,
2. Algebra, Quadratics through the Binomial Theorem, A II,
4. Plane Geometry.

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FRESHMAN ENTRANCE REQUIREMENTS FOR THE COURSE  
LEADING TO THE DEGREES OF LITT.B. AND B.S.

*N. B.—The degree of Bachelor of Science (B.S.) is open to those who concentrate in one of the Mathematical or Scientific Departments during the Junior and Senior years, and*

*the degree of Bachelor of Letters (Litt.B.) has been constituted to be open to those who concentrate in one of the Departments in philosophical, political, literary, or other humanistic studies. The entrance requirements for these two degrees are identical.*

**HISTORY.** One and only one of:

1. American History and Civil Government,
2. English History,
3. Ancient History.

**LATIN.**

1. Latin Grammar,
2. Latin Composition A,
3. Cæsar (four books),
4. Cicero A (six orations),
5. Virgil A (six books).

**ENGLISH.**

1. English A (reading),
2. English B (careful study).

**MATHEMATICS.**

1. Algebra to Quadratics, A I,
2. Algebra, Quadratics through the Binomial Theorem, A II,
4. Plane Geometry,
5. Solid Geometry,
6. Plane Trigonometry.

**MODERN LANGUAGES AND SCIENCE.** One and only one of the following five combinations:

1. French A and German A,
2. French B and Physics A or B,
3. French B and Chemistry,
4. German B and Physics A or B,
5. German B and Chemistry.

FRESHMAN ENTRANCE REQUIREMENTS FOR THE COURSE  
LEADING TO THE DEGREE OF C.E.

*N. B.—No student will be admitted to the C.E. Freshman year until he has passed in all the mathematical subjects required for entrance.*

HISTORY. One and only one of:

1. American History and Civil Government,
2. English History,
3. Ancient History.

ENGLISH.

1. English A (reading),
2. English B (careful study).

FOREIGN LANGUAGES. Any two of the three languages.

Latin. 1. Latin Grammar, 2. Latin Composition A,  
3. Cæsar, 4. Cicero, and 5. Virgil A.

French. 1. French A,

German. 1. German A.

MATHEMATICS.

1. Algebra to Quadratics, A I,
2. Algebra, Quadratics through the Binomial Theorem, A II,
4. Plane Geometry,
5. Solid Geometry,
6. Plane Trigonometry.

SCIENCE. One and only one of the two sciences:

Physics A or B,  
Chemistry.

[It is recommended that all candidates should receive instruction in freehand drawing before entrance.]

## FRESHMAN ENTRANCE SUBJECTS

## HISTORY

It is recommended that each of the following courses be pursued in the spirit and by the methods suggested in the Report of the Committee of Seven of the American Historical Association on the Study of History in Schools. (The Macmillan Co., 1899.)

1. *American History and Civil Government.* The course of study recommended for American History and Civil Government should occupy four exercises a week for one year. Military details may be omitted. The origins of the American people and the development of their political life should be clearly understood in their main outlines.

2. *English History.* For the period preceding the Norman invasion a brief outline will suffice. The course of English History after that event down to 1850 should be carefully studied with proper reference to the development of political institutions.

3. *Ancient History.* For the present the requirement will be restricted to Greek History to the death of Alexander the Great, and Roman History to the accession of Commodus. As soon as it appears practicable, notice will be given and the requirement will be extended to comprise "Ancient History, with special reference to Greek and Roman History, and including also a short introductory study of the more ancient nations and the chief events of the Middle Ages down to the death of Charles the Great (814)." It is recommended that instruction in the schools should be extended to comprise Ancient History in the sense above defined.

## GREEK

(1, 2, 3, 4 to be offered for A.B. entrance.)

1. *Greek Grammar.* The topics for the examination in Greek Grammar are similar to those detailed under Latin Grammar.

2. *Greek Composition A.* Consisting principally of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in grammar and prose composition will be based on the first two books of Xenophon's *Anabasis*.

3. *Xenophon.* The first four books of the *Anabasis*.

4. *Homer A.* The first three books of the *Iliad* (omitting II, 494-end).

Greek 5 and 6 are approved substitutes for 4. Candidates desiring papers in these subjects or desiring to offer any other substitute for 4, must notify the Registrar of the University on or before May 1st, preceding the examinations.

5. *Homer B.* The sixth, seventh, and eighth books of the *Iliad*.

6. *Herodotus.* Selections from the seventh book, sections 1-60 and 172-239.

Papers will be regularly set in Greek 11 and 12. These subjects are not required, nor may they be substituted for any of the specified subjects, but excellence in them will be taken into account in the general estimate of the candidate's Greek papers.

11. *Greek Composition B.* Consisting of continuous prose, based on Xenophon, and other Attic prose of similar difficulty.

12. *Sight Translation.* Based on prose of no greater difficulty than Xenophon's *Anabasis*.

#### LATIN

1. *Latin Grammar.* The inflections; the simpler rules for composition and derivation of words; syntax of cases and verbs; structure of the sentence in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive; so much prosody as relates to accent, versification in general, and dactylic hexameter.



2. *Latin Composition A.* Translation into Latin of detached sentences and very easy continuous prose, based upon Cæsar and Cicero.

3. *Cæsar.* Any four books of the Gallic War, preferably the first four.

4. *Cicero A.* Any six orations from the following list, but preferably the first six mentioned.

The four orations against Catiline, Archias, the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

5. *Virgil A.* The first six books of the *Æneid*.

Candidates desiring to offer Latin 6, 7, 8, 9, 10, or any substitute for any part of the specified subjects, 3, 4, or 5, must notify the Registrar of the University on or before May 1st, preceding the examinations.

6. *Sallust.* The *Catiline*.

7. *Ovid.* Twenty-five hundred lines from the *Metamorphoses*.

8. *Virgil B.* The last six books of the *Æneid*.

9. *Virgil C.* The *Eclogues* and *Georgics*.

10. *Cicero B.* *De Amicitia* and *De Senectute*.

Papers will be regularly set in Latin 11 and 12. These subjects are not required, nor may they be substituted for any of the specified subjects, but excellence in them will be taken into account in the general estimate of the candidate's Latin papers.

11. *Latin Composition B.* Consisting of continuous prose of moderate difficulty, based on Cicero.

12. *Sight Translation.* Based exclusively on prose of no greater difficulty than the easier portions of Cicero's orations.

#### ENGLISH

(Both 1 and 2 to be offered by all candidates.)

The examination will be based upon the books prescribed by the uniform entrance requirements in English.

Questions as to the subject matter, structure, and style of these books will be asked.

For 1909, 1910 and 1911, the books on which the examination in English will be based are chosen from the list recommended by the Conference on Uniform Entrance Requirements in English.

*English A.* For reading, Shakespeare's *Merchant of Venice* and *Julius Cæsar*; two of the following novels, Scott's *Ivanhoe*, Hawthorne's *The House of the Seven Gables*, Dickens's *A Tale of Two Cities*, George Eliot's *Silas Marner*; six of the following, Chaucer's *Prologue* to the *Canterbury Tales*, *The Sir Roger de Coverley Papers* in the *Spectator*, Franklin's *Autobiography*, Coleridge's *Ancient Mariner*, Scott's *The Lady of the Lake*, Carlyle's *Heroes and Hero-Worship*, Lowell's *The Vision of Sir Launfal*, Tennyson's *Gareth and Lynette*, *Launcelot and Elaine* and *The Passing of Arthur*, Irving's *Sketch Book*.

A candidate may offer, as a substitute for the list given above, any other list which conforms to the requirements recommended by the Conference on Uniform Entrance Requirements in English.

*English B.* For careful study, Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

#### GERMAN

1. *German A.* Candidates should be able to translate at sight a passage of simple German; to put into German short English sentences taken from the language of everyday life or a passage of simple connected prose; and to answer questions upon the rudiments of grammar.

Satisfactory preparation for this examination is fur-

nished in the two-year course in elementary German recommended by the Modern Language Association. The course comprises drill in pronunciation, memorizing easy sentences, the rudiments of grammar with easy exercises illustrating grammatical forms and principles, and the reading of 75 to 100 pages of graduated texts from a reader, followed by 150 to 200 pages of easy stories and plays. It is recommended, however, that not more than one play be read.

2. *German B.* Candidates should be able to translate at sight German prose of ordinary difficulty, whether recent or classical; to put into German a connected passage of ordinary English; and to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation.

Satisfactory preparation for this examination is furnished by the intermediate German course of three years recommended by the Modern Language Association. In addition to the preparation suggested for German A this preparation comprises the reading of about 400 pages of moderately difficult prose and poetry, with continued practice in grammar and composition.

#### FRENCH

1. *French A.* Candidates should be able to translate at sight easy French prose, to put into French simple English sentences, or a passage of easy connected prose, and to answer questions on the rudiments of the grammar.

Satisfactory preparation for this examination is furnished in the two-year course in elementary French recommended by the Modern Language Association. The course comprises drill in pronunciation, the rudiments of grammar, memorizing easy sentences, with easy exercises illustrating grammatical forms and principles, translation into French, writing French from dictation, and the reading of 100 to 175

pages of graduated texts, followed by 250 to 400 pages of easy modern prose in the form of stories, plays, or historical biographical sketches.

2. *French B.* Candidates should be able to translate at sight ordinary French prose or simple poetry, to put into French a connected passage of English prose and to answer questions involving a more thorough knowledge of syntax than is expected in French A.

Satisfactory preparation for this examination is furnished by the intermediate French course of three years recommended by the Modern Language Association. In addition to the course recommended for French A this preparation comprises the reading of from 400 to 600 pages of moderately difficult French, a portion of it to be in the dramatic form, exercise in giving French paraphrases, and continued practice in grammar and composition.

#### MATHEMATICS

(1, 2, 4 to be offered by all candidates. In addition, 5 and 6 to be offered for Litt.B., B.S., and C.E. entrance.)

In all numerical work special emphasis is laid upon accuracy and facility in reckoning.

In each of the following subjects simple original exercises will be set.

Problems having to do with lengths, areas, or volumes will usually be stated in terms of the metric system of weights and measures.

1. *Algebra to Quadratics, A I.* The four fundamental operations for rational algebraic expressions, factoring, highest common factor, lowest common multiple, complex fractions, the solution of equations of the first degree containing one or more unknown quantities, radicals including the extraction of the square root of polynomials and numbers, and fractional and negative exponents.

2. *Elementary Algebra, Quadratics through the Binomial*

*Theorem, A II.* Quadratic equations, equations in one or more unknown quantities that can be solved by the methods of quadratic equations, ratio and proportion, the progressions, and the binomial theorem for positive integral exponents.

4. *Plane Geometry.* Demonstrations of theorems, and constructions and demonstrations of problems; the solution of simple numerical exercises, including lengths of lines and areas of the triangle, parallelogram, trapezoid, regular polygons, and circle; simple original exercises in construction and demonstration.

5. *Solid Geometry.* Properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons (including prisms, parallelepipeds, pyramids and the regular solids), of cylinders, cones, and spheres, of spherical triangles, and the mensuration of these solids and their surfaces.

6. *Plane Trigonometry.* Definitions of the six trigonometric functions as ratios, relations between these six functions, values of the functions for  $0^\circ$ ,  $30^\circ$ ,  $45^\circ$ ,  $60^\circ$ ,  $90^\circ$ ,  $120^\circ$ ,  $135^\circ$ , etc., etc., formulas for the sine, cosine, and tangent of the sum or difference of two angles for all angles, formulas for the sum or difference of two sines or two cosines, expressions for the functions of double and half angles, trigonometric identities and equations, theory of logarithms and the use of trigonometric tables, and the solution of right and oblique plane triangles. A knowledge of the meaning of the circular measure of angles and of the inverse trigonometric functions is also desirable. The tables furnished for this examination are Huntington's four-place tables, abridged edition, published by the Harvard Coöperative Society, Cambridge, Mass.

#### PHYSICS

The requirement in elementary physics may be met in either of the two following ways:

1. *Physics A.* By passing an examination on the subject as it is presented in such text-books as Gage's *Principles of Physics*, Millikan & Gale, Carhart & Chute, Hoadley, etc. In this examination much emphasis will be laid upon the student's ability to solve numerical problems.

2. *Physics B.* By presenting a laboratory note-book containing full records of all the experimental work performed by the student during his course of preparation. This note-book must bear the certificate of the instructor that the records were made by the student himself, and that they are a faithful description of the laboratory work actually done by him. The note-book should be paged and properly indexed. The presentation of this note-book will excuse the student from the examination on the general subject, but he will still be examined on the solution of numerical problems as prescribed in A. The metric system will be used exclusively in the examination.

In order to meet requirement A at least one school year, with four or five recitations per week, should be devoted to the subject. This course should be accompanied by class-room demonstrations conducted by the teacher. Requirement B may be met in the same length of time by dividing the time about equally between recitations based on a suitable text-book and laboratory exercises performed by the student himself. While it is desirable that this laboratory work have a large range and accordingly be mainly of a qualitative character, still due stress should be laid upon the performance of exact quantitative work.

#### CHEMISTRY

1. *Chemistry.* The candidate's preparation should include: (1) The study of a standard text-book, (2) instruction by lecture-table demonstrations, and (3) individual laboratory work, embracing forty exercises selected from some such work as Smith and Keller's *Experiments for Students in General Chemistry*.

The requirement embraces the sources, preparation, physical and chemical properties of the following elements

and their most important compounds: *hydrogen, oxygen, chlorine, nitrogen, carbon, bromine, iodine, fluorine, sulphur, phosphorus, arsenic, silicon, potassium, sodium, calcium, magnesium, aluminium, zinc, iron, manganese, copper, mercury, silver, lead, and tin.* Detailed study should be given to the italicized elements and their compounds. Further, candidates should be well posted in matters relating to natural waters, the atmosphere, the laws of chemical combinations by weight and by volume, oxidation and reduction, combustion, nascent state, catalysis, bases, acids, and salts, the nature and structure of flames, precipitation, distillation, crystallization, the elementary gas laws and their applications, the atomic and molecular theories, equation writing, stoichiometrical calculations and valency. They should also have some elementary knowledge of chemical energy, mass action, equilibrium, and the ionic theory.

At the examination each candidate must hand in, along with his paper, a note-book containing a detailed record of the practical work done by him in the laboratory, and this note-book must bear the endorsement of his instructor.

The requirements are intended to be essentially equivalent to those specified in the Plan of Organization of the College Entrance Examination Board of the Middle States and Maryland.

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#### EXAMINATION CERTIFICATES ISSUED BY THE COLLEGE ENTRANCE EXAMINATION BOARD

will be accepted in place of the regular entrance examinations, in so far as the certificates presented correspond to the requirements of this University. Candidates offering such certificates are required to submit therewith the testimonials as to character and general fitness prescribed above for other candidates. The latter testimonial shall state definitely the amount of work done in each subject offered for examination.

## ADMISSION TO SPECIAL COURSES

In exceptional cases students are admitted to the privileges of the University, not as members of any one of the four regular classes or candidates for a degree, and are allowed to take special undergraduate courses, selected under the direction of the Faculty, in such a manner as to secure so full an employment of their time as in the regular course. Such special students are subject to the same regulations and discipline and to the same examinations in the studies pursued as other undergraduates. Any one desiring to enter as a special student is expected to take the regular entrance examinations upon the subjects prerequisite to his courses and to pass in a sufficient number of subjects to show that he has an amount of preparation equivalent to that required of regular students. These special courses, however, are not offered to those who attempt to enter the regular course and fail to do so, nor to those who have failed in the regular course.

When special students are finally leaving the University certificates of proficiency, signed by the President and Registrar, may be granted them on report by the Committee on Special Students that they have completed the courses on their schedule.

## ADMISSION TO ADVANCED STANDING

Candidates coming from other colleges may apply to enter without examination. Every such applicant shall furnish a certificate of graduation or a letter of honorable dismissal from the college from which he comes, also an official statement of the courses he has completed and of the quality of his work in these courses. Each case is judged on its merits, and the candidate, if admitted, will be classified as a "special" student, and will be assigned to the courses for which his preparation shall seem to qualify him. If, at the end of two terms of residence in Princeton,



his work has been satisfactory, his credits in the college from which he comes will be accepted so far as they are equivalent to courses given at Princeton, and he may be admitted as a regular student, provided that he has satisfied the requirements of a regular course as far as the beginning of the term upon which he is about to enter, or, in case he qualifies for it, receive a degree with the graduating class.

Application blanks may be had from the Registrar.

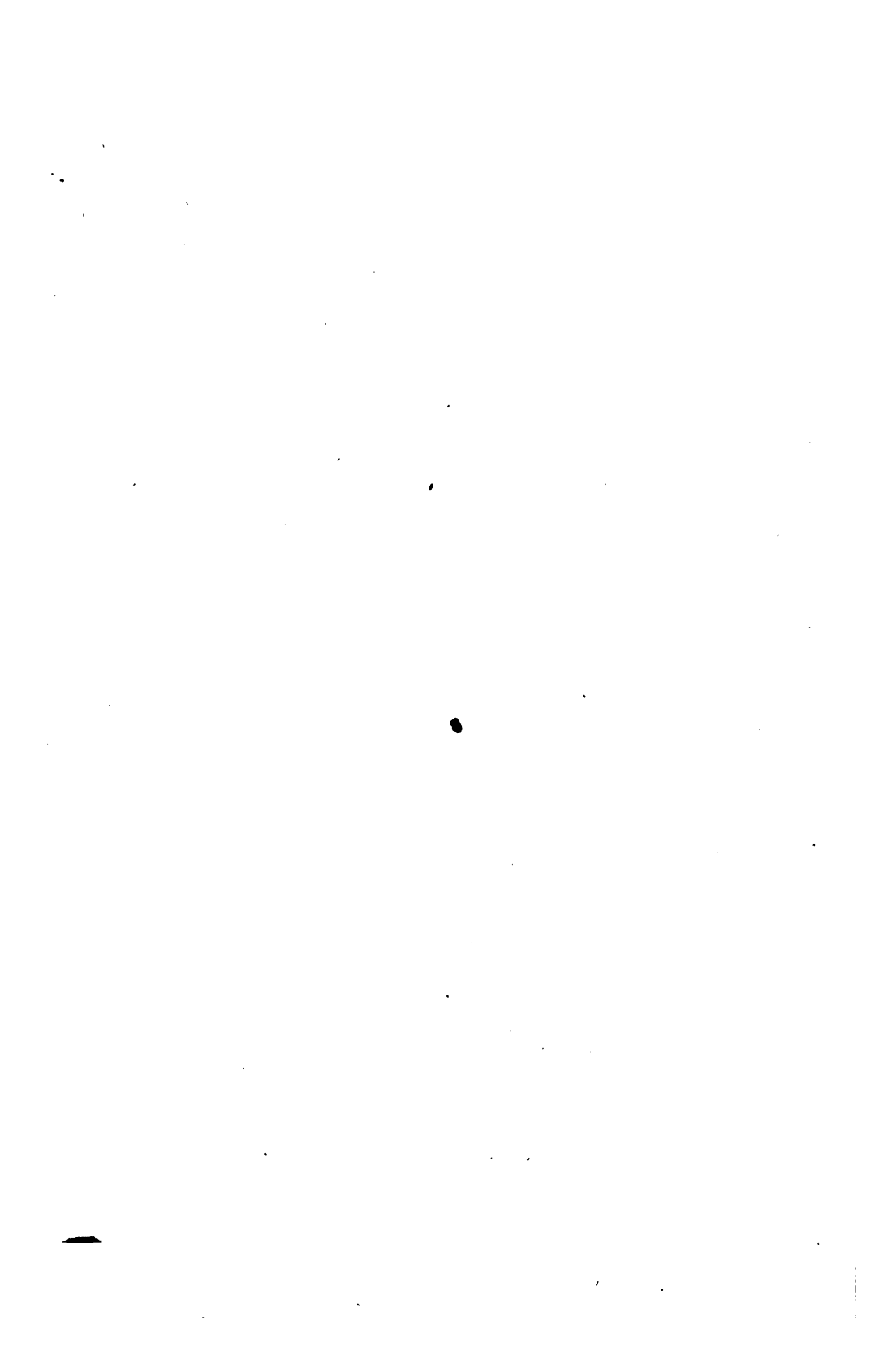
Candidates for admission to the Sophomore class, who have not completed the studies of the Freshman class at another approved institution, must first pass an examination on the studies required for admission to the Freshman class.

No person is admitted to the University as a candidate for a Bachelor's degree, or for the degree of Civil Engineer, after the beginning of the first term of the Senior year.

#### REGULATION CONCERNING SECRET SOCIETIES

Immediately after the beginning of the academic year the students entering the Undergraduate Department meet according to announcement for matriculation, and subscription to the following pledge is required by the Board of Trustees:

We, the undersigned, do individually for ourselves promise, without any mental reservation, that we will have no connection whatever with any secret society, nor be present at the meetings of any secret society in this or any other institution so long as we are members of Princeton University, it being understood that this promise has no reference to the American Whig and Cliosophic Societies. We also declare that we regard ourselves bound to keep this promise and on no account whatever to violate it.



## PART IV

### SYSTEM OF UNDERGRADUATE STUDY



## SYSTEM OF UNDERGRADUATE STUDY

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The courses of study offered to candidates for a Bachelor's degree extend through four academic years, and lead to the degrees of Bachelor of Arts (A.B.), Bachelor of Letters (Litt.B.), and Bachelor of Science (B.S.). The candidate for a Bachelor's degree enters either the Academic Department or the John C. Green School of Science. The curriculum of the Academic Department leads to the degrees of Bachelor of Arts and Bachelor of Letters; the curriculum of the School of Science to the degrees of Bachelor of Science and Civil Engineer. The degree of Bachelor of Arts (A.B.) is conferred upon those who, entering with Greek, fulfil the full classical requirements of Freshman and Sophomore years; candidates for the degree being free, after the two introductory years, to choose their studies in whatever Department they prefer, whether philosophical, literary, or scientific. The degree of Bachelor of Letters (Litt.B.) is conferred upon those who, having substituted for Greek at entrance either French and German or one of those languages and physics or chemistry, after entrance concentrate their studies in one of the philosophical, literary, political, or other humanistic Departments. The degree of Bachelor of Science is conferred upon those who, entering with a similar substitution for Greek, concentrate their studies after entrance upon one of the mathematical or scientific Departments. The degree of Civil Engineer is conferred upon those who pursue the full course in Civil Engineering, as outlined on succeeding pages.

The schedule of every Sophomore, Junior, and Senior, who is a candidate for a Bachelor's degree, consists of five

courses of three hours a week, subject only to such exemptions as are established for candidates for Special Honors.

The various courses of study offered are open only to students of that year to which the courses belong, except in cases where students are allowed or required to take a course belonging to a preceding year.

### THE FRESHMAN YEAR

The course of the Freshman year is composed of sixteen class exercises a week, of which two each week are given to the study of English, four to Latin, and four to mathematics. In addition to the English, Latin, and mathematics, each candidate for the A.B. degree has four exercises devoted to Greek and two exercises devoted to the modern language which he offered at entrance; and each candidate for the Litt.B. or B.S. degree has three exercises a week in the modern language which he has offered at entrance, together with three additional exercises, either in the other modern language (French or German) or in physics, according as he has or has not offered physics for entrance. Candidates offering French B and Physics for admission must elect French 23, 24 and German 11, 12. Those offering French B and Chemistry must elect French 23, 24 and Physics. Candidates offering German B and Physics for admission must elect German 23, 24 and French 11, 12. Those offering German B and Chemistry must elect German 23, 24 and Physics.

### THE SOPHOMORE YEAR

The Sophomore courses, required and elective, arranged so as to include elementary courses prerequisite to the subsequent studies of the various departments, are as follows:

#### SOPHOMORE A.B.—REQUIRED

Physics

Logic (1st term), Psychology (2d term)

Greek (1st term), Latin (2d term)

**SOPHOMORE A.B.—ELECTIVE** (*Two courses to be taken*)

Latin (1st term), Greek (2d term)

Chemistry

Mathematics

English (1st term), History (2d term)

French (Advanced or Beginners')

German (Advanced or Beginners')

**SOPHOMORE B.S. AND LITT.B.—REQUIRED**

Latin or Mathematics

Physics or Chemistry

Logic (1st term), Psychology (2d term)

**SOPHOMORE B.S. AND LITT.B.—ELECTIVE** (*Two courses to be taken*)

Latin

Mathematics

Physics

Chemistry

Graphics, if Mathematics is taken

English (1st term), History (2d term)

French (Advanced or Beginners')

German (Advanced or Beginners')

**SOPHOMORE HONORS COURSE IN MATHEMATICS AND PHYSICS**

A Sophomore electing the Honors Course in Mathematics and Physics takes one less elective course than is required in the regular course, but shall have seven hours a week in Mathematics and Physics.

The student's choice of a Department for Junior and Senior years is largely conditioned by his selection of the electives in the Sophomore year. The Sophomore prerequisite and advised elective courses for the various Departments are as follows:

[PREREQUISITE Sophomore elective courses in small capitals. *Advised* Sophomore elective courses in italics.]

DEPARTMENT	PREREQUISITE AND ADVISED ELECTIVE COURSES	FOR DEGREE OF
I. <i>Philosophy</i>	<i>A foreign language</i>	A.B. & Litt.B.
II. <i>History, Politics, and Economics</i>	HISTORY <i>A foreign language</i>	} A.B. & Litt.B.

DEPARTMENT	PREREQUISITE AND ADVISED ELECTIVE COURSES	FOR DEGREE OF
III. <i>Art and Archaeology</i>	CLASSICS or a modern language, through year	A.B.
	LATIN or a modern language, through year	Litt.B.
IV. <i>Classics</i>	CLASSICS, through year	A.B.
V. <i>English</i>	ENGLISH	A.B.
	A foreign language	
	ENGLISH	Litt.B.
	LATIN, through year	
	A modern language	
VIa. <i>Modern Languages Germanic Section</i>	GERMAN, through year	A.B. & Litt.B.
VIb. <i>Modern Languages Romanic Section</i>	FRENCH, through year	A.B.
	Classics	
	FRENCH, through year	Litt.B.
	LATIN, through year	
VII. <i>Mathematics</i>	MATHEMATICS, through year	A.B. & B.S.
VIII. <i>Physics</i>	MATHEMATICS, through year	A.B. & B.S.
	Chemistry	
VIIIA. <i>Honors Course in Mathematics and Physics</i>	HONORS COURSE IN MATHEMATICS AND PHYSICS, through year	A.B. & B.S.
IX. <i>Chemistry</i>	CHEMISTRY, through year	A.B. & B.S.
	Mathematics (must be taken here or in Junior year)	
X. <i>Geology</i>	CHEMISTRY, through year	A.B. & B.S.
	A modern language	
XI. <i>Biology</i>	CHEMISTRY, through year	A.B. & B.S.
	A modern language	

## THE JUNIOR YEAR

Each Junior must choose a Department in which to concentrate his studies, and must take all the Junior year courses of that Department, as indicated in the list of Junior courses, as well as the courses which are there stated to be



cognate to that Department. Three of his five courses must, in all cases, be in the Division in which the Department chosen lies, and one course shall be outside of the Division in which this Department lies, the remaining course being left to his free election.

A Junior admitted to the Honors Course in Mathematics and Physics, unless permitted a different choice by the Department, is to select three consecutive courses; i. e., either A. B. C., B. C. D., or C. D. E. In addition each student selects an elective (3 hours) in some other Department than the Department of Mathematics and Physics.

A Junior admitted to the Honors Course in the Classical Humanities chooses his electives in accordance with the regulations printed on page 135.

#### LIST OF COURSES OF JUNIOR YEAR

[The numbers prefixed to the courses in the following list refer to the description of those courses on later pages. All courses three hours a week. Five courses to be taken. First term courses have odd numbers; second term courses have even numbers.]

##### A. DIVISION OF PHILOSOPHY

###### I. *Department of Philosophy*

- 31, 32. History of Philosophy  
 33. Advanced Psychology. 34. Advanced Logic or  
 Experimental Psychology  
 Plato IVa. B.  
 (Advised elective: 33, 34. Politics)

###### II. *Department of History, Politics, and Economics*

- 31, 32. History, or Roman History IVa. C.  
 33. Jurisprudence, or Greek Public Life IVa. D. 34.  
 Politics  
 35, 36. Economics  
 (Advised elective: 31, 32. History of Philosophy)

##### B. DIVISION OF ART AND ARCHÆOLOGY

###### III. *Department of Art and Archæology*

- 31, 32. Art and Archæology  
 33, 34. Architecture

(*Requisite cognate course:* A course in Classics or  
a modern language through  
year)

(*Advised elective:* 31, 32. History of Philosophy)

C. DIVISION OF LANGUAGE AND LITERATURE

IV. *Department of Classics*

53, 54. Greek

57, 58. Latin

(*Advised elective:* 31, 32. History of Philosophy)

IVa. *Honors Course in the Classical Humanities*

A History of Philosophy

B Plato

C Roman History

D Greek Public Life

E Classical Archæology

F History of Architecture

G Aeschylus

H Plautus

J Hist. Latin Literature

V. *Department of English*

31, 32. English Literature

33, 34. English Philology

VIa. *Department of Modern Languages. Germanic Section*

31, 32. German Literature (Opitz to Lessing)

33, 34. German Literature (Goethe)

VIb. *Department of Modern Languages. Romanic Section*

31, 32. French

35, 36. Italian, or 37, 38. Spanish

(*Advised elective:* 57, 58. Latin)

D. DIVISION OF MATHEMATICS AND SCIENCE

VII. *Department of Mathematics*

31, 32. Mathematics

33, 34. Analytical Mechanics

VIIa. *Honors Course in Mathematics and Physics*

A. Pure Mathematics—Geometry

B. Pure Mathematics—Analysis

C. Applied Mathematics—Mechanics

D. Theoretical Physics

E. Experimental Physics

**VIII. Department of Physics**

31, 32. Physics

33, 34. Analytical Mechanics

*(Advised elective: 31, 32. Mathematics)***IX. Department of Chemistry**

31, 32. Chemistry

33, 34. Chemistry

*(Requisite cognate course: 31, 32. Physics)**(The free elective must be the Sophomore Mathematics unless that course has been taken during the Sophomore year)***X. Department of Geology**

31. Geology, and 32. Structural Geology

33, 34. Mineralogy

*(Requisite cognate course: 31, 32. Biology)***XI. Department of Biology**

31, 32. Biology

33, 34. Botany

*(Requisite cognate course: Practical Chemistry through year)*

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The following Junior courses fall under Division D, but are not included in any one of the Departments of that Division:

31. Astronomy

32. Geodesy

33. Graphics

34. Graphical Statics

36. Physical Geography

**THE SENIOR YEAR**

Each Senior must continue his studies in a Department in which he has satisfied the requirements of the Junior year, and must take three courses in that Department as indicated in the list of Senior courses. Or, in case three courses are not thus indicated, three of his courses must, in all cases, be in the Division in which his Department lies.

The schedule of a Senior admitted to the Honors Course in Mathematics and Physics shall consist of three courses selected from the Honors Courses and of an additional elective (3 hours) outside the Departments of Mathematics and Physics. The three Honors Courses may be selected from those of the courses a, b, c, d, e of which the prerequisites have previously been taken, or from those of the courses A, B, C, D, E which have not previously been taken.

A Senior admitted to the Honors Course in the Classical Humanities chooses his electives in accordance with the regulations printed on page 135.

#### LIST OF COURSES OF SENIOR YEAR

[All courses three hours a week. Five courses to be taken. First term courses have odd numbers; second term courses have even numbers.]

##### A. DIVISION OF PHILOSOPHY

###### I. *Department of Philosophy*

- 41, 42. Philosophy
- 43. Exper. Psych. or Fundamental Problems of Philosophy
- 45, 46. Ethics
- 47, 48. Philosophy

###### II. *Department of History, Politics, and Economics*

- 41, 42. History
- 43, 44. History
- 45, 46. Politics
- 47, 48. Politics
- 49, 50. Economics
- 51. Roman Law

##### B. DIVISION OF ART AND ARCHÆOLOGY

###### III. *Department of Art and Archæology*

- 41, 42. Art and Archæology
- 43, 44. Architecture
- 45, 46. Art and Archæology

## C. DIVISION OF LANGUAGE AND LITERATURE

IV. *Department of Classics*

- 91, 80. Greek
- 88. Greek
- 81, 82. Latin
- 97, 98. Latin
- 89. Roman Law

V. *Department of English*

- 41, 42. English
- 43, 44. English
- 45, 46. English

VIa. *Department of Modern Languages. Germanic Section*

- 41, 42. German Literature (Nineteenth Century)
- 43, 44. German Literature (Middle High German)

VIb. *Department of Modern Languages. Romanic Section*

- 43, 44. Old French
- Two of the three languages:
- 41, 42, French; 45, 46, Italian; 47, 48, Spanish

## D. DIVISION OF MATHEMATICS AND SCIENCE

VII. *Department of Mathematics*

- 41, 42. Mathematics

VIIa. *Honors Course in Mathematics and Physics*

- a. Geometry
- b. Analysis
- c. Applied Mathematics
- d. Theoretical Physics
- e. Experimental Physics

VIII. *Department of Physics*

- 41, 42. Physics
- 43, 44. Physics

IX. *Department of Chemistry*

- 41, 42. Chemistry
- 43, 44. Chemistry
- 45, 46. Chemistry

U of M

**X. Department of Geology**

- 41, 42. Historical Geology  
43. Structural and Dynamic Geology; 44. Tectonic Geology  
45, 46. Invertebrate Palæontology, or  
47. Mineralogy; 48. Petrology

**XI. Department of Biology**

41. Comparative Anatomy of Vertebrates; 42. Embryology  
43. Biology. 44. Palæontology  
45, 46. Histology

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Senior courses which are not in any one of the eleven Departments above:

- 41, 42. Sanskrit (*falls in Division C*)  
43, 44. Practical Astronomy (*falls in Division D*)  
45, 46. Theory of Prime Motors (*falls in Division D*)  
43, 44. Biblical Literature (*falls in Division C*)

**THE PRO-SEMINARIES**

A pro-seminary will be established in some Departments for Seniors who are candidates for Final Special Honors (see later pages). Each pro-seminary will be in charge of a Director, who shall conduct a session of the pro-seminary at least one hour each week during the term or year.

The Director shall have charge of the admission and assignment of qualified Seniors and of the work of the pro-seminary generally. In case the pro-seminary is divided into sections, each section shall be conducted by an instructor, but the Director shall have general oversight of the pro-seminary, preside at the joint sessions of the sections, and conduct the sessions of one section.

The sessions of each pro-seminary will be devoted to the presentation and discussion of work prepared by the individual members of the pro-seminary.

## TABLES SHOWING THE DEPARTMENTS IN DETAIL

## A. DIVISION OF PHILOSOPHY

## I. DEPARTMENT OF PHILOSOPHY

Open to candidates for the degrees of A.B. and Litt.B.

*Advised Sophomore Elective*

A foreign language

*Junior Courses*

31, 32. Philosophy (H)

33. Psychology (H), and 34a. Logic (H), or 34b. Psychology

A course from Division A (33, 34. Politics *advised*)

A course not in Division A

An elective

*Senior Courses*

41, 42. Philosophy

43a. Psychology, or 43b. Philosophy, and 44. Philosophy

45, 46. Ethics

An elective

An elective

## II. DEPARTMENT OF HISTORY, POLITICS, AND ECONOMICS

Open to candidates for the degrees of A.B. and Litt.B.

*Prerequisite Sophomore Course*

History

*Advised Sophomore Elective*

A foreign language

*Junior Courses*

31, 32. History (H)

33, 34. Politics (H)

35, 36. Economics (H)

A course not in Division A

An elective (31, 32. History of Philosophy *advised*)

*Senior Courses*

{ Three courses in  
History, Politics,  
and Economics

An elective

An elective

## B. DIVISION OF ART AND ARCHÆOLOGY

## III. DEPARTMENT OF ART AND ARCHÆOLOGY

Open to candidates for the degrees of A.B. and Litt.B.

*Prerequisite Sophomore Courses*

Elective Classics through the year for A.B.

Latin through the year for Litt.B.

*Advised Sophomore Elective*

A modern language

*Junior Courses*

31, 32. Archæology (H)

33, 34. Architecture (H)

A course in Classics (H) or a Modern Language through the year

A course not in Division B (History of Philosophy *advised*)

*Senior Courses*

41, 42. Art and Archæology

43, 44. Architecture

45, 46. Art and Archæology

An elective

An elective

## C. DIVISION OF LANGUAGES AND LITERATURE

## IV. DEPARTMENT OF CLASSICS

Open to candidates for the degree of A.B.

*Prerequisite Sophomore Course*

Elective Classics through the year

*Junior Courses*

{ 53, 54. Aeschylus, Sophocles }

{ 57, 58. Latin Literature }

A course from Division C

A course not in Division C (History of Philosophy *advised*)

An elective

*Senior Courses*

{ Three courses  
in Latin  
and Greek }

An elective

An elective



## IVa. HONORS COURSE IN THE CLASSICAL HUMANITIES

Open to candidates for the degree of A.B., and in the  
Latin Section to candidates for the degree of Litt. B.

*Prerequisite Sophomore Course*

Sophomore prescribed Classics for A.B.

Sophomore Latin for Litt.B.

*Junior Courses*

[Beginning 1908-1909]

- A. History of Philosophy
- B. Plato
- C. Roman History
- D. Greek Public Life
- E. Classical Archæology
- F. History of Architecture
- G. Aeschylus
- H. Plautus
- J. History of Latin Literature

*Senior Courses*

[Beginning 1909-1910]

- a. Greek Philosophy
- b. Greek History
- c. Roman Public Life
- d. Greek Sculpture and Architecture
- e. Homer and Lyric Poets
- f. Latin, Elegiac Poets and Virgil
- g. Classical Influence in English Literature
- h. Roman Law; Comparative Grammar

## V. DEPARTMENT OF ENGLISH

Open to candidates for the degrees of A.B. and Litt.B.

*Prerequisite Sophomore Courses*

English for A.B.

Latin through the year and  
English } for Litt.B.

*Advised Sophomore Electives*

A foreign language for A.B.

A modern language for Litt.B.

*Junior Courses*

31, 32. English Literature (H)

33, 34. English Philology (H)

A course from Division C

A course not in Division C

An elective

*Senior Courses*

41, 42. English Literature

43, 44. English Literature

45, 46. English Philology

An elective

An elective

**VIa. DEPARTMENT OF MODERN LANGUAGES. GERMANIC SECTION**

Open to candidates for the degrees of A.B. and Litt.B.

*Prerequisite Sophomore Course*

German through the year

*Junior Courses*

31, 32. German Literature (H)

33, 34. German Literature (Goethe) (H)

A course from Division C

A course not in Division C

An elective

*Senior Courses*

41, 42. German Literature

43, 44. Middle High German

A course from Division C

An elective

An elective

**VIb. DEPARTMENT OF MODERN LANGUAGES. ROMANIC SECTION**

Open to candidates for the degrees of A.B. and Litt.B.

*Prerequisite Sophomore Courses*

French through the year for A.B. and Litt.B.

Latin through the year for Litt.B.

*Advised Sophomore Elective*

Elective Classics for A.B.

*Junior Courses*

31, 32. French Literature (H)  
 35, 36. Italian (H), or 37, 38. Spanish (H)  
 A course from Division C (Latin *advised*)  
 A course not in Division C  
 An elective

*Senior Courses*

43, 44. Romanic Philology  
 { Two of the three languages:  
 { 41, 42. French, 45, 46. Italian, 47, 48. Spanish  
 An elective  
 An elective

## D. DIVISION OF MATHEMATICS AND SCIENCE

## VII. DEPARTMENT OF MATHEMATICS

Open to candidates for the degrees of A.B. and B.S.

Candidates for Honors in Mathematics and Physics take the Honors Courses outlined on the next page

*Prerequisite Sophomore Course*

21, 22. Mathematics

*Junior Courses*

31, 32. Mathematics  
 33, 34. Analytical Mechanics  
 A course from Division D  
 A course not in Division D  
 An elective

*Senior Courses*

41, 42. Mathematics  
 45, 46. Mathematics  
 A course from Division D  
 An elective  
 An elective

## VIII. DEPARTMENT OF PHYSICS

Open to candidates for the degrees of A.B. and B.S.

Candidates for Honors in Mathematics and Physics take the Honors Courses outlined below.

*Prerequisite Sophomore Course*

21, 22. Mathematics

*Advised Sophomore Elective*

Chemistry

*Junior Courses*

31, 32. Experimental Physics

33, 34. Analytical Mechanics

A course from Division D (31, 32. Mathematics *advised*)

A course not in Division D

An elective

*Senior Courses*

41, 42. Physics

43, 44. Physics

A course from Division D

An elective

An elective

## VIIA. HONORS COURSES IN MATHEMATICS AND PHYSICS

Open to candidates for the degrees of A.B. and B.S.

*Prerequisite Sophomore Course*

25, 26. Honors course in Mathematics

Honors course in Physics.

*Junior Courses*

A. A course in pure Mathematics—Geometry

B. A course in Mathematics—Analysis

C. A course in Applied Mathematics—Mechanics

D. A course in Theoretical Physics

E. A course in Experimental Physics

(Of these, three courses are to be taken. Unless permitted a different choice by the Department he must select C as one of these courses)

A course not in the Department of Mathematics and Physics

*Senior Courses*

- a. A course in Geometry
- b. A course in Analysis
- c. A course in Applied Mathematics—Electricity and Magnetism
- d. A course in Theoretical Physics
- e. A course in Experimental Physics

(Three courses are to be taken, selected from those of this list, of which the prerequisite courses of Junior year have been taken, or from the honors courses of Junior year which have not previously been taken. A Senior electing course b must elect course A if he has not already taken it. A Senior electing course a must elect course B if he has not already taken it)

A course not in the Department of Mathematics and Physics

## IX. DEPARTMENT OF CHEMISTRY

Open to candidates for the degrees of A.B. and B.S.

*Prerequisite Sophomore Courses*

Chemistry through the year

21, 22. Mathematics (may be taken in Junior year)

*Junior Courses*

31a, 32a. Chemistry (H)

33, 34. Chemistry (H)

31, 32. Physics

A course not in Division D

An elective (must be 21, 22. Mathematics, unless that course has been taken in Sophomore year)

*Senior Courses*

41, 42. Chemistry

43, 44. Chemistry

45, 46. Chemistry

An elective

An elective

## X. DEPARTMENT OF GEOLOGY

Open to candidates for the degrees of A.B. and B.S.

*Prerequisite Sophomore Course*

Chemistry through the year

*Advised Sophomore Elective*

A modern language

*Junior Courses*

31, 32. Geology (H)

33, 34. Mineralogy (H)

31, 32. Biology

A course not in Division D

An elective

*Senior Courses*

41, 42. Geology

43, 44. Geology

45, 46. Palæontology, or 47, 48. Mineralogy

An elective

An elective

## XI. DEPARTMENT OF BIOLOGY

Open to candidates for the degrees of A.B. and B.S.

*Prerequisite Sophomore Course*

Chemistry through the year

*Advised Sophomore Elective*

A modern language

*Junior Courses*

31, 32. Biology (H)

33, 34. Botany (H)

Practical Chemistry 31b, 32b, through the year

A course not in Division D

An elective

*Senior Courses*

41, 42. Biology

43. Histology, and 44. Palæontology

45, 46. Biology

An elective

An elective

In the above statements of the Departments the courses in the Junior year which are marked with (H) are the courses central to the Department in which a Junior must maintain a standing not below the second group in order to be a candidate for Final Special Honors.

## DEPARTMENT OF CIVIL ENGINEERING

## THE COURSE OF STUDY

The course in civil engineering is designed to fit its graduates for entering the profession of civil engineering. The degree conferred at its close on successful candidates is Civil Engineer (C. E.). The regular course of study occupies four years, but applicants who are found to be suitably prepared are admitted to advanced standing. Bachelors of Arts, of Letters, or of Science of Princeton University, who, while undergraduates, have pursued suitable elective studies can ordinarily be prepared for the civil engineer's degree by a two-years' course in the technical studies required for that degree.

In arranging the course in civil engineering care has been taken to give the student the benefit of as much general training in the earlier years as the claims upon his time made by his later technical studies will permit. Accordingly, a large proportion of his time in the Freshman and Sophomore years is devoted to studies which are pursued in common with candidates for the Bachelors' degrees.

A very large proportion of the strictly technical studies of the course cannot be profitably pursued without a thorough previous preparation in mathematics; especial attention is therefore given in the earlier part of the course to imparting to the students in civil engineering a sound working knowledge of the ordinary divisions of that science, inclusive of analytical mechanics, and a high degree of proficiency therein is exacted from all candidates for the degree of C. E.

Great stress is also laid in this course on the study of graphics as a science as well as an art, both in its general development and in its application to the practice of designers and builders. For convenience, it has been separated into two distinct divisions, *viz.*:

A. Defined in detail under the courses entitled Graphics (under Department of Civil Engineering, on a later page), and comprising all branches of the study, including descriptive geometry and its applications, which are usually grouped under the general heading, geometrical or mechanical drawing. At its conclusion the student will have been trained to execute general and working drawings of structures, to prepare patterns or templates for the shaping of structural details, to make working and finished drawings of machines, and to trace graphically and lay out mechanical movements, such as link-and-valve motions, etc.

B. Defined in detail in the courses entitled Geodesy (under Department of Civil Engineering, on a later page), and consisting of those branches of the art which are closely associated with surveying, and generally known as map drawing or topographical drawing, the object of which is to make the student expert in the execution, in pen work and colors, of finished plans and maps of various kinds of surveys. Except in the necessary preliminary drill these drawings invariably represent actual surveys made by the different classes. A rigid adherence to field notes and a high degree of finish are exacted in their execution.

The study of surveying and engineering field work is provided for in the different subdivisions of the course of study in geodesy (see courses in geodesy, under Department of Civil Engineering, on a later page). The structure, adjustment, and use of each instrument are made subjects of special attention, and no student is allowed to participate in any extended field operation until he has acquired a certain dexterity in handling the instruments used therein. The instruction in geodesy extends through different kinds of surveys, in the order of their complexity, and ends in location surveys of lines of communication, staking out for construction in general, and problems of railway terminals and yard-work. A special feature of the course in geodesy



is the stress laid on the orderly collection and verification of field notes by each student, and on their appropriate use in the preparation of different kinds of plans, maps, and charts of surveys. No error is allowed in field work or in plotting which is not within the limits observed in practice.

During the two weeks immediately following the close of the second term of the Junior year, the Junior class in civil engineering engages in the field work of extended surveys in some locality selected by the Professor of Geodesy. All regular members of the class are required to attend these exercises.

The remaining strictly technical studies of the course in civil engineering, given by name on succeeding pages, may be grouped under the headings: applied mechanics, constructions, and laboratory practice.

The first group covers a wide range of studies comprising graphical statics, theoretical and practical hydraulics, the elasticity and strength of materials, the stability and pressures of earthen masses and of foundations, the stability of block structures and of steel-concrete structures, the strength of girders and of framed structures, the theory of the draw bridge, the suspension bridge, the cantilever bridge, and of metallic arches, the general theory of motors, and the theory of water wheels, of steam engines, and gas engines. In dealing with the theories of these subjects rigid mathematical treatment is generally used, yet proper weight is given to graphical methods of analysis and the student's attention is especially directed to those problems in which such methods can be employed with advantage. The practical application of the above subjects also receives proper attention and is illustrated in some cases by drawings, in others by models, and in others by prescribed exercises in the Civil Engineering Laboratory.

The second group, namely constructions, comprises those technical studies which are largely descriptive of the

planning and construction of engineering works. These subjects begin with the study of the physical properties of structural materials, with the aid of laboratory exercises, and advance to the study of the design and construction of foundations under various conditions of difficulty; to the erection of bridges and other structures, and the consideration of the auxiliaries needed therefor; to the planning and construction of water works under different conditions as to kind and quality of supply; the design and construction of sewerage and drainage systems, including modes of disposal and purification of sewage; and the construction of roads, streets, etc. Great stress is laid on the application of correct rules and principles, on the careful inspection, manipulation, and preservation of materials, and on the economic features of various designs and the modes of executing them.

An important feature of this part of the course consists of excursions for the examination of rolling mills, bridge works, machine shops, water works, etc. In these visits the class is accompanied by one of the professors in charge, and every member of the party is required to make full notes of his observations and of the instruction received during the trip.

The position of the third group of exercises, namely laboratory practice, in the course of study, as well as its purpose, will be inferred from the preceding explanations. (See also Civil Engineering Laboratory, on a later page.)

As one of the conditions of being recommended for the degree of Civil Engineer each candidate for the degree is required to prepare and submit for the approval of a professor, appointed in each case by the Department, a graduation thesis. This shall be a design or review of some structure, machine, or process, or a theoretical and practical examination and extension of some work or subject selected from the technical studies of the Department.

The subject of the graduation thesis must be announced for approval to the professors of the Department, not later than the first Monday in March (second term, Senior year); and the thesis must be completed on or before the second Saturday preceding Commencement.

The following is a synopsis of the course in civil engineering. *All studies are required.*

### THE FRESHMAN YEAR

<i>First Term</i>	Hours a week	<i>Second Term</i>	Hours a week
English .....	2	English .....	2
Physics .....	4	Physics .....	4
Mathematics.....	4	Mathematics.....	4
Chemistry .....	3	Chemistry .....	3
Graphics .....	2	Geodesy.....	3
Geodesy.....	1		
<hr/>		<hr/>	
Total .....	16	Total .....	16

### THE SOPHOMORE YEAR

<i>First Term</i>	Hours a week	<i>Second Term</i>	Hours a week
General Physics.....	3	General Physics .....	3
Mathematics.....	3	Mathematics.....	3
Mathematics.....	2	Mathematics.....	2
Mineralogy .....	3	Geology.....	3
Graphics .....	3	Graphics .....	3
Geodesy .....	3	Geodesy.....	3
<hr/>		<hr/>	
Total .....	17	Total .....	17

### THE JUNIOR YEAR

<i>First Term</i>	Hours a week	<i>Second Term</i>	Hours a week
Analytical Mechanics .....	3	Analytical Mechanics .....	3
General Astronomy.....	3	Practical Astronomy.....	2
Graphical Statics.....	3	Mechanics of Materials....	4
Geodesy.....	4	Geodesy.....	5
Graphics .....	2	Graphics .....	3
Materials of Construction....	2		
<hr/>		<hr/>	
Total .....	17	Total .....	17

## THE SENIOR YEAR

<i>First Term</i>	Hours a week	<i>Second Term</i>	Hours a week
Framed Structures.....	5	Framed Structures .....	3
Prime Motors .....	3	Prime Motors .....	3
Hydraulics .....	2	Water Works .....	2
Graphics .....	2	Sewerage and Drainage ...	2
Geodesy .....	3	Roads .....	2
Laboratory .....	2	Masonry Structures .....	2
		Methods of Construction ..	2
		Laboratory .....	1
<hr/>		<hr/>	
Total .....	17	Total .....	17

## **PART V**

### **DEPARTMENTS OF THE UNIVERSITY**



## ACADEMIC DEPARTMENT

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### FACULTY

WOODROW WILSON, PH.D., LITT.D., LL.D., *President, McCormick Professor of Jurisprudence and Politics.*

FRANCIS LANDEY PATTON, D.D., LL.D., *Ex-President, Stuart Professor of Ethics and the Philosophy of Religion.*

HENRY BURCHARD FINE, PH.D., *Dean of the Faculty.*

ANDREW FLEMING WEST, PH.D., LL.D., HON. D.LITT. (Oxon.), *Dean of the Graduate School, Giger Professor of Latin.*

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THEODORE WHITEFIELD HUNT, PH.D., L.H.D., *Professor of English.*  
SAMUEL ROSS WINANS, PH.D., *Professor of Greek and Instructor in Sanskrit.*

ALLAN MARQUAND, PH.D., L.H.D., *Professor of Art and Archæology.*

ALEXANDER THOMAS ORMOND, PH.D., LL.D., *McCosh Professor of Philosophy.*

JOHN HOWELL WESTCOTT, PH.D., *Musgrave Professor of Latin and Tutor in Roman Law.*

GEORGE MCLEAN HARPER, PH.D., *Holmes Professor of Belles Lettres and English Language and Literature.*

WINTHROP MORE DANIELS, A.M., *Professor of Political Economy.*

JOHN GRIER HIBBEN, PH.D., LL.D., *Stuart Professor of Logic.*

PAUL VAN DYKE, D.D., *Professor of History.*

HENRY VAN DYKE, D.D., LL.D., *Murray Professor of English Literature.*

GEORGE STEVENSON PATTON, A.M., *Professor of Moral Philosophy.*

HOWARD CROSBY WARREN, A.M., *Professor of Experimental Psychology.*

THOMAS MARC PARROTT, PH.D., *Professor of English.*

EDMUND YARD ROBBINS, A.M., *Professor of Greek.*

WILLIAMSON UPDIKE VREELAND, D. ES L., *Professor of Romance Languages.*

STOCKTON AXSON, A.M., *Professor of English.*

- JOHN HAUGHTON CONEY, A.M., *Professor of History.*  
WILLIAM KELLY PRENTICE, PH.D., *Professor of Greek.*  
HOWARD CROSBY BUTLER, A.M., *Professor of Art and Archæology.*  
NORMAN SMITH, D. PHIL., *Stuart Professor of Psychology.*  
DUANE REED STUART, PH.D., *Professor of Classics.*  
CHRISTIAN GAUSS, A.M., *Professor of Modern Languages.*  
EDWARD CAPPS, PH.D., *Professor of Classics.*  
FRANK FROST ABBOTT, PH.D., *Professor of Classics.*  
HENRY JONES FORD, *Professor of Politics.*  
JOHN PRESTON HOSKINS, PH.D., *Assistant Professor of German.*  
HARRY FRANKLIN COVINGTON, A.M., *Assistant Professor of English.*  
ROBERT MCNUTT McELROY, PH.D., *Clerk of the Academic Faculty, Assistant Professor of American History.*  
MAX FRIEDRICH BLAU, PH.D., *Assistant Professor of German.*  
LUCIUS HOPKINS MILLER, A.M., *Assistant Professor of Biblical Instruction.*  
ROYAL MEEKER, PH.D., *Assistant Professor of Political Economy.*  
ROGER BRUCE CASH JOHNSON, PH.D., *Earl Dodge Preceptor in Philosophy.*  
ADAM LEROY JONES, PH.D., *Preceptor in Philosophy.*  
WALTER TAYLOR MARVIN, PH.D., *Preceptor in Philosophy.*  
WILMON HENRY SHELDON, PH.D., *Preceptor in Philosophy.*  
EDWARD GLEASON SPAULDING, PH.D., *Preceptor in Philosophy.*  
WALTER MAXWELL ADRIANCE, A.M., *Preceptor in History, Politics, and Economics.*  
ERNEST LUDLOW BOGART, PH.D., *Preceptor in History, Politics, and Economics.*  
EDWARD SAMUEL CORWIN, PH.D., *Preceptor in History, Politics, and Economics.*  
EDGAR DAWSON, PH.D., *Preceptor in History, Politics, and Economics.*  
EDWARD GRAHAM ELLIOTT, PH.D., *Robert Stockton Pyne Preceptor in History, Politics, and Economics.*  
CHARLES HOWARD MCILWAIN, A.M., *Robert Stockton Pyne Preceptor in History, Politics, and Economics.*  
WILLIAM STARR MYERS, PH.D., *Preceptor in History, Politics, and Economics.*  
HENRY ROBINSON SHIPMAN, PH.D., *Preceptor in History, Politics, and Economics.*  
CHARLES WORTHEN SPENCER, PH.D., *Preceptor in History, Politics, and Economics.*



EDWIN WILLIAM PAHLOW, A.M., *Preceptor in History, Politics, and Economics.*

CHARLES RUFUS MOREY, A.M., *Preceptor in Art and Archæology.*

OLIVER SAMUEL TONKS, PH.D., *Preceptor in Art and Archæology.*

ANDREW RUNNI ANDERSON, PH.D., *Preceptor in Classics.*

JOHN WILLIAM BASORE, PH.D., *Preceptor in Classics.*

DONALD CAMERON, PH.D., *Preceptor in Classics.*

HAROLD RIPLEY HASTINGS, A.M., *Preceptor in Classics.*

FRED LEROY HUTSON, PH.D., *Preceptor in Classics.*

GEORGE DWIGHT KELLOGG, PH.D., *Preceptor in Classics.*

DONALD ALEXANDER MACRAE, PH.D., *Preceptor in Classics.*

DAVID MAGIE, JR., PH.D., *William Alfred Packard Preceptor in Classics.*

EDWIN MOORE RANKIN, PH.D., *Preceptor in Classics.*

LARUE VAN HOOK, PH.D., *Preceptor in Classics.*

LEROY CARR BARRET, PH.D., *Preceptor in Classics.*

AUSTIN MORRIS HARMON, PH.D., *Preceptor in Classics.*

HARDIN CRAIG, PH.D., *Edgerstoune Preceptor in English.*

MORRIS WILLIAM CROLL, PH.D., *Preceptor in English.*

GORDON HALL GEROULD, B.LITT., *John Rutherford Preceptor in English.*

NATHANIEL EDWARD GRIFFIN, PH.D., *Preceptor in English.*

AUGUSTUS WHITE LONG, A.M., *Preceptor in English.*

FRANCIS CHARLES MACDONALD, A.B., *Preceptor in English.*

LOUIS WARDLAW MILES, PH.D., *Preceptor in English.*

CHARLES GROSVENOR OSGOOD, JR., PH.D., *Preceptor in English.*

ROBERT KILBURN ROOT, PH.D., *Preceptor in English.*

JOHN DUNCAN SPAETH, PH.D., *Preceptor in English.*

JACOB NEWTON BEAM, PH.D., *Preceptor in Modern Languages.*

DOUGLAS LABAREE BUFFUM, PH.D., *Preceptor in Modern Languages.*

VARNUM LANSING COLLINS, A.M., *Preceptor in Modern Languages.*

FRANK LINLEY CRITCHLOW, PH.D., *Preceptor in Modern Languages.*

WILLIAM KOREN, A.M., *Preceptor in Modern Languages.*

ALFRED AUSTIN MOORE, A.B., *Preceptor in Modern Languages.*

GEORGE TYLER NORTHUP, PH.D., *Preceptor in Modern Languages.*

GEORGE MADISON PRIEST, PH.D., *Preceptor in Modern Languages.*

HARVEY WATERMAN THAYER, PH.D., *Preceptor in Modern Languages.*

RÉGIS MICHAUD, Licencié ès lettres, Sorbonne, *Preceptor in Modern Languages.*

## INSTRUCTORS

GEORGE WASHINGTON TAPLEY WHITNEY, PH.D., *Instructor in Philosophy.*

PHILIP HOWARD FOGEL, PH.D., *Instructor in Philosophy.*

CLEMENT LESLIE VAUGHAN, PH.D., *Demonstrator in Psychology.*

CHARLES DELAHUNT MAHAFFIE, B.C.L., *Instructor in Jurisprudence and Politics.*

WALTER LINCOLN WHITTLESEY, A.B., *Instructor in History, Politics, and Economics.*

GEORGE BYRON LOUIS ARNER, PH.D., *Instructor in History, Politics, and Economics.*

RALPH CLAUDE WILLARD, A.B., *Instructor in History, Politics and Economics.*

HARRY BROWN VAN DEVENTER, PH.D., *Instructor in Classics.*

HENRY BRONSON DEWING, PH.D., *Instructor in Classics.*

GEORGE DOBBIN BROWN, PH.D., *Instructor in English.*

MAXWELL STRUTHERS BURT, A.B., *Instructor in English.*

HERBERT SPENCER MURCH, PH.D., *Instructor in English.*

CHARLES WILLIAM KENNEDY, PH.D., *Instructor in English.*

CHARLES EDWARD LYON, PH.D., *Instructor in Modern Languages.*

CHARLES EUGLEY MATHEWS, PH.D., *Instructor in Modern Languages.*

ALFRED ERNEST RICHARDS, PH.D., *Instructor in Modern Languages.*

DONALD CLIVE STUART, A.M., *Instructor in Modern Languages.*

RAYMOND WATSON JONES, A.B., *Instructor in Modern Languages.*

## COURSES OF INSTRUCTION

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### A. DIVISION OF PHILOSOPHY

#### I. DEPARTMENT OF PHILOSOPHY

EX-PRESIDENT PATTON, PROFESSORS ORMOND, HIBBEN,  
G. S. PATTON, WARREN, NORMAN SMITH, JOHNSON,  
JONES, MARVIN, SHELDON, AND SPAULDING;  
DRS. FOGEL, VAUGHAN, AND  
WHITNEY

21. Logic. Hibben: *Logic*. Sophomore required course, first term, 3 hours a week. Professor Hibben.
22. Psychology. Sophomore required course, second term, 3 hours a week. Professor Norman Smith.
31. History of Philosophy. This course includes, (1) Greek and Roman philosophy to close of pagan schools. (2) Medieval philosophy to fall of scholasticism and beginning of the modern era. Zeller: *Outlines*; Erdmann; Windelband. Junior course, first term, 3 hours a week. Prerequisite to History of Philosophy of second term, and Epistemology and Metaphysics of Senior year. Professor Ormond.
32. History of Philosophy. This course includes, (1) Modern philosophy from Descartes to Kant, (2) Post-Kantian philosophy. Falckenberg: *History of Modern Philosophy*. Junior course, second term, 3 hours a week. Prerequisite course: History of Philosophy of first term. Prerequisite to Epistemology and Metaphysics. Professor Ormond.

- 33. Advanced Psychology. Junior course, first term, 3 hours a week. Professor Norman Smith.
- 34a. Advanced Logic. The Logic of Scientific Method. Junior course, second term, 3 hours a week. Exclusive with 34b. Professor Hibben.
- 34b. Experimental Psychology. Scope and methods of experimental investigation of mental processes. Psycho-physical methods; analysis of sensation, with study of the common senses; contrast, sensory fatigue, habit, etc. Lectures and work in the laboratory. Sanford: *Course in Experimental Psychology*. Titchener: *Experimental Psychology*. Junior course, second term, 3 hours a week. Exclusive with 34a. Prerequisite to 43a. Professor Warren.
- 41, 42. Outlines of Philosophy. This course includes, (1) Epistemology or doctrine of knowledge, (2) Metaphysics or theory of reality. Ormond: *Foundations of Knowledge*; McCosh: *First and Fundamental Truths*. Selections from Kant. Senior course, both terms, 3 hours a week. Prerequisite course: History of Philosophy. Professor Ormond.
- 43a. Experimental Psychology, Continuation of 34b. The special senses; space perception and visual illusions; memory, association, and thought; feeling and its measure; reaction and general psychology of movement. Lectures and work in the Laboratory. Titchener: *Experimental Psychology*. Sanford: *Course in Experimental Psychology*. Senior course, first term, 3 hours a week. Exclusive with 43b. Professor Warren.
- 43b. Fundamental Problems of Philosophy. Senior course, first term, 3 hours a week. Exclusive with 43a. Professor Norman Smith.
- 44. Philosophy of the Eighteenth Century. Development of philosophical thought from Locke to Kant,

- covering the Aufklärung in England, France, Germany. Senior course, second term, 3 hours a week. Professor Hibben.
45. Types of Ethical Theory. Lectures on the history of ethics and types of ethical theory with collateral reading. Senior course, first term, 3 hours a week. Prerequisite to course 46. Professor George S. Patton.
  46. Fundamental Ethical Concepts. Lectures and collateral reading. Senior course, second term, 3 hours a week. Ex-President Patton and Professor George S. Patton.
  - 47, 48. History of Greek Philosophy. Lectures and collateral reading. Detailed study will be made of the Pre-Socratic fragments, and of some of the chief works of Plato and Aristotle. History of Philosophy 31 should, if at all possible, be previously taken, in Junior year. Senior course, both terms, 3 hours a week. Professor Norman Smith.

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THE PRO-SEMINARY IN PHILOSOPHY. In charge of Professor Ormond. Reading of masterpieces in modern philosophy with theses. Topic for 1908-1909, Schopenhauer: "*On the Four-fold Root of the Principle of Sufficient Reason*," and "*The World as Will and Idea*." Professor Ormond and Dr. Fogel.

Experimental Psychology. Practical demonstrations in the laboratory of typical experimental investigations, with drill in the methods of calculating and treating results. Sanford: *Course in Experimental Psychology*; Titchener: *Experimental Psychology*. Reference books: Wundt, Külpe, Jastrow, Stratton, Witmer, Scripture. Pro-seminary for students in the psychological laboratory. Pre-

requisite course: Experimental Psychology, Calculus (advised). Prerequisite to the graduate work in the psychological laboratory. Professor Warren.

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For graduate courses in Philosophy, see Department of the Graduate School, pp. 210, 211.

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## II. DEPARTMENT OF HISTORY, POLITICS, AND ECONOMICS

THE PRESIDENT, PROFESSORS DANIELS, PAUL VAN DYKE, CONEY, WESTCOTT, FORD, MCELROY, MEEKER, ADRIANCE, BOGART, CORWIN, DAWSON, ELLIOTT, MCILWAIN, MYERS, SHIPMAN, C. W. SPENCER, AND PAHLOW;  
MR. MAHAFFIE, MR. WHITTLESEY, DR.  
ARNER, AND MR. WILLARD.

22. Mediæval History; 400 A.D.-1494 A.D. Sophomore elective, second term, 3 hours a week. Prerequisite to the history courses in Junior and Senior years. One lecture weekly by Professor Paul van Dyke, and two recitations weekly in small divisions, the recitations being conducted by Professors Paul van Dyke, Coney, McElroy, and others. (This course is to precede and be continuous with History 31 and 32.)
31. European History; 1494 A.D.-1789 A.D. Lectures and required reading. Junior course, first term, 3 hours a week. Prerequisite course: History 22. Professor Coney.
32. European History; 1789 A.D.-1878 A.D. Lectures and required reading. Junior course, second term, 3 hours a week. Prerequisite course: History 22. Professor Coney.
33. Elements of Jurisprudence. Outlines of jurispru-

- dence. An exposition of jurisprudence as an organic whole, exhibiting the nature of its subject-matter, its relationship to cognate branches of study, the inter-relationship of its several parts to each other, and their proper function and aim. Lectures and collateral reading. T. E. Holland: *Elements of Jurisprudence*; Sir W. Markby: *Elements of Law*; Sir H. S. Maine: *Ancient Law*; and E. Jenks: *Law and Politics in the Middle Ages*. Junior course, first term, 3 hours a week. The President.
34. Constitutional Government. The genesis, nature, and operation of constitutional government, with especial reference to the political institutions of England and the United States. W. Wilson: *The State*; E. Boutmy: *English Constitution*; A. V. Dicey: *The Law of the Constitution*; W. Bagehot: *The English Constitution*; W. Wilson: *Congressional Government*. Junior course, second term, 3 hours a week. The President.
- 35, 36. Elements of Economics. This course will comprise the essential elements of the abstract theory of economics and some of the more essential applications and exemplifications of the theory, such as money, banking, transportation, international trade, and monopoly problems. There will be regularly one lecture a week, and two recitations in small groups to test the student's apprehension of the subject matter covered in the reading. Fetter: *Principles of Economics*, and collateral readings. Junior course, both terms, 3 hours a week. Prerequisite course: History 22. Prerequisite to Public Finance and Practical Economics. Professor Daniels and Professor Meeker.
- 41, 42. Modern English History from the accession of the Tudor Dynasty to the Electoral Reforms of the

Nineteenth Century. The lectures in this course are given twice weekly by Professor Paul van Dyke. Lectures, collateral reading and tests. Senior course, both terms, 3 hours a week. Prerequisite course: History 22. Professor Paul van Dyke.

43. American History to the Fall of the Federalist Party. An account of the discovery of the continent, the growth of colonial institutions, the development of concerted action among the colonies, and the establishment of the federal government. Lectures dealing with selected topics; text-book covering the entire period; and extensive collateral reading. Senior course, first term, 3 hours a week. Prerequisite course: History 22. Professor McElroy.
44. American History since the Fall of the Federalist Party. An account of the development and expansion of the United States. Lectures dealing with selected topics; text-book covering the entire period; and extensive collateral reading. Senior course, second term, 3 hours a week. Prerequisite course: History 22. Professor McElroy.
45. Politics. National Legislation. An examination of the methods by which legislative business is prepared and transacted in various countries, with special reference to American problems. Bryce: *American Commonwealth*; Lowell: *Governments and Parties in Continental Europe*; Ford: *Rise and Growth of American Politics*; Courtney: *Working Constitution of the United Kingdom*; Seignobos: *Political History of Europe*. Senior course, first term, 3 hours a week. Prerequisite course: Constitutional Government 34. Professor Ford.
46. Politics. State and Municipal Government in the United States and other Countries. Bryce: *American Commonwealth*; Fairlie: *Essays in Municipal*



- Administration*; Reinsch: *American Legislatures and Legislative Methods*; Shaw: *Municipal Government in Great Britain*. Senior course, second term, 3 hours a week. Prerequisite course: Constitutional Government 34. Professor Ford.
47. Politics. International Law. A discussion of the general principles with their application to some current and disputed questions. Text-book: Hall: *A Treatise on International Law*. Senior course, first term, 3 hours a week. Professor Elliott.
48. Politics. Nature and Theory of the State. Hobbes: *Leviathan*; Locke: *On Civil Government*; Rousseau: *The Social Contract*; Lowell: *Essays on Government*; Wilson: *An Old Master and other Political Essays*; Willoughby: *The Nature of the State*. Only selected portions of these books will be required. Senior course, second term, 3 hours a week. Professor Elliott.
49. Economics. Public Finance. This course will cover the theory of public finance. Lectures with weekly conferences. Daniels: *Public Finance*. Reference book: Bullock: *Selected Readings in Public Finance*. Senior course, first term, 3 hours a week. Prerequisite courses: History 22 and Economics 35, 36. Professor Daniels.
50. Economics. Practical Economics; Money and Banking, the Tariff and the Trusts. This course is designed to outline briefly the problems touching money and banking, the tariff, and the trusts. Johnson: *Money and Banking*; Kemmerer: *Money and Prices*; Fiske: *Modern Bank*; Taussig: *Tariff History*; Ripley: *Trusts, Pools, and Corporations*. Senior course, second term, 3 hours per week. Prerequisite courses: History 22 and Economics 35 and 36. Professor Meeker.

51. (Classics 89.) Roman Law. The History and Institutes of Roman Law. Sohm: *Institutes of Roman Law*, English translation. For those students who take the subject as part of the Honors Course in Classical Humanities, and for others, if they so desire, the preceptorial work will be in the *Institutes of Justinian*. Senior course, first term, 3 hours a week. Professor Westcott.

For honors courses in the Classical Humanities which may be substituted for regular courses in this Department, see under the Department of Classics.

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THE PRO-SEMINARY. In the Department of History, Politics, and Economics there will be a pro-seminary both terms; the pro-seminary to be divided into sections, one for history, one for politics, and one for economics. Admission to the pro-seminary will be conditioned upon a student's obtaining in the Junior year courses in the Department the standing prescribed for entrance upon pro-seminary work. Professor Daniels will be the director of the pro-seminary. Professor McIlwain will take charge of the pro-seminary in politics both terms; Professors Myers and Dawson will conduct the historical section, and Professors Meeker and Bogart the economic section.

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For graduate courses in History, Politics, and Economics, see Department of the Graduate School, pp. 211-213.

## B. DIVISION OF ART AND ARCHÆOLOGY

## III. DEPARTMENT OF ART AND ARCHÆOLOGY

PROFESSORS MARQUAND, BUTLER, TONKS, AND MOREY

31. Classical Archæology. A general outline of the history of Greek and Roman architecture, sculpture, painting, and the minor arts. Lectures and required reading. Reference books: Collignon: *Manual of Greek Archæology*; Martha: *L'Archéologie Etrusque et Romaine*. Junior course, first term, 3 hours a week. Professor Tonks.
32. Mediæval Art. A general outline of the history of Early Christian, Byzantine, Romanesque, and Gothic sculpture, painting, and the minor arts. Lectures and required reading. Reference books: Lowrie: *Monuments of the Early Church*; Bayet: *L'Art Byzantin*; Lethaby: *Mediæval Art*. Junior course, second term, 3 hours a week. Professor Morey.
33. Ancient Architecture. A course in the history of Egyptian, Assyrian, Persian, Greek, and Roman architecture. Two hours of lecture and one of historical drawing. Reference books: Hamlin: *History of Architecture*; Sturgis: *European Architecture*. Junior course, first term, 3 hours a week. Prerequisite to 43, 44, Elements of Architecture. Professor Butler.
34. Mediæval Architecture. The history of Early Christian, Byzantine, Romanesque, and Gothic architecture. Two hours of lectures and one of historical drawing. Reference books: Hamlin: *History of Architecture*; Sturgis: *European Architecture*. Junior

- course, second term, 3 hours a week. Prerequisite course: Ancient Architecture 33. Professor Butler.
41. Greek Sculpture. A study of the technique, forms, composition, and history of Greek sculpture. Lectures and required reading. Gardner: *Handbook of Greek Sculpture*. Senior course, first term, 3 hours a week. Prerequisite course: Classical Archæology 31. Professor Marquand.
42. Italian Sculpture. A general survey of the history of Italian sculpture through the Renaissance period. Lectures and required reading. Senior course, second term, 3 hours a week. Prerequisite course: one of the Junior courses in Art and Archæology. Professor Marquand.
- 43, 44. Elements of Architecture. The classic orders of ancient and Renaissance architecture, studied in their historical development, from reproductions of the ancient monuments, from the text of Vitruvius, and from the works of Vignola and Palladio. This course includes drawing to scale, with shades and shadows, and exercises in historical design. Ware: *The American Vignola*. Senior course, both terms, 3 hours a week. Prerequisite course: Ancient Architecture 33. Professor Butler.
45. Renaissance Painting. A study of the technique, subjects, compositions, and historical relations of Italian Renaissance painting. Reference books: Lafenestre: *La Peinture Italienne*; Wölfflin: *Art of the Renaissance*. Senior course, first term, 3 hours a week. Prerequisite course: one of the Junior courses in Art and Archæology. Professor Marquand.
46. Flemish and Dutch Painting. An historical study of the two schools of painting from their origins to modern times, with especial reference to subject,

composition, and technique. Reference books: A. J. Wauters: *La Peinture Flamande*; W. M. Conway: *Early Flemish Artists*; Henry Havard: *The Dutch School of Painting*. Senior course, second term, 3 hours a week. Professor Tonks.

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For graduate courses in Art and Archæology, see the Department of the Graduate School, pp. 213, 214.

## C. DIVISION OF LANGUAGE AND LITERATURE

## IV. DEPARTMENT OF CLASSICS

PROFESSOR WINANS, DEAN WEST, PROFESSORS WESTCOTT,  
ROBBINS, PRENTICE, CAPPS, STUART, ABBOTT, ANDERSON,  
BASORE, CAMERON, HASTINGS, HUTSON, KELLOGG,  
MACRAE, DAVID MAGIE, JR., E. M. RANKIN,  
VAN HOOK, BARRET, AND HARMON; DR.  
VAN DEVENTER, AND DR. DEWING.

## FRESHMAN AND SOPHOMORE YEARS

11. Lysias, and Plato's Apology. The first half of the term will be devoted to reading selected speeches of Lysias and to a review of Greek grammar. This review will be based partly on the text, partly on exercises in Greek prose composition. During the second half of the term Plato's Apo'ogy of Socrates will be read. The emphasis of the study will be laid upon the thought rather than upon the language. Freshman course, required for the degree of A.B. First term, 4 hours a week. Professor Stuart.
12. Herodotus and Homer. The first half of the term: Herodotus and Greek History; the second half of the term: selected portions of the Odyssey. Attention will be given to Ionic forms and to the special features of syntax and style of Herodotus and the Odyssey. Freshman course, required for the degree of A.B., second term, 4 hours a week. Professor Robbins.
13. Livy, Latin Prose Composition, and Roman History. The greater part of the first and a large part of the twenty-first and twenty-second books will be studied both as history and as Latin, one-quarter of the time

- being devoted to exercises in prose composition. Westcott: *Livy, Books i, xxi, and xxii*; Abbott: *A Short History of Rome*. Freshman course, required of all candidates for the degrees of A.B., Litt. B., and B.S., first term, 4 hours a week. Professor Westcott.
14. Roman Comedy and Roman History. Most of the time will be devoted to the study of selected comedies of Plautus and Terence. Freshman course, required of all candidates for the degrees of A.B., Litt. B., and B.S., second term, 4 hours a week. Professor Stuart.
21. Greek Drama: Aristophanes and Euripides. Selected plays. Lectures on the development of the drama, on the presentation of plays, on the authors and their works. Sophomore course, required of candidates for the degree of A.B., first term, 3 hours a week. Professors Winans and Robbins.
22. Lucian. Selected dialogues; illustrative of the life and thought of the second century A.D. Brief account of the later Greek literature. Sophomore course, elective for candidates for the degree of A.B., second term, 3 hours a week. Professor Winans.
23. Sophomore Elective Latin. Reading of prose literature of the Silver Age, as represented in Tacitus and Pliny the Younger, with incidental study of the political and social life of their time. Tacitus: *Agri- cola and Germania*; Pliny: *Letters*. Sophomore course, elective for A.B., required alternative for Litt.B., and B.S., first term, 3 hours a week. Professors Stuart and David Magie, Jr.
24. Horace and Catullus. Horace: *Odes and Satires*; Catullus: *Selections*. Sophomore required for A.B., required alternative for Litt.B. and B.S., second term, 3 hours a week. Dean West.

## JUNIOR AND SENIOR YEARS

### HONORS COURSE IN THE CLASSICAL HUMANITIES

The instruction of the Junior and Senior years is organized so as to constitute the Honors Course in the Classical Humanities, which went into operation for the Junior class in September, 1908, and will be in operation for the Junior and Senior classes from September, 1909.

The purpose of the Honors Course is not philological or scientific, but literary, historical, political, artistic and philosophical. The aim is to make clear through lectures, preceptorial conferences, and intimate personal work in the Pro-seminary the fundamentally valuable lessons of antiquity for modern thought and life. The reading of selected masterpieces of the ancient writers, with abundant help given to the student in the way of explanation and criticism, is a necessary part of the course. The student in this reading will be guided as closely as possible along the line of his special aptitudes and desires. So far as practicable, the members of the Honors Course are assigned for their reading and conferences to instructors of their own choice. Certain parts of the reading will be slow and critical, but it is also intended to develop the practice of fluent and copious reading, particularly in the fields of history and literature.

The general regulations for the Honors Course are printed below. While the complete range of electives offered is naturally open only to those who have studied both Greek and Latin, a sufficient number of electives is provided for those who have studied Latin only. Accordingly the candidates for Honors will be placed in two sections, the properly Classical section and the Latin section.



## GENERAL REGULATIONS

1. Candidates for the degree of Bachelor of Arts or Bachelor of Letters, who have completed the Sophomore year with an average standing in their Classical courses not lower than the third group, may enter the Honors Course in the Classical Humanities at the beginning of Junior year as candidates for Honors, or if they do not enter the Honors Course, may in the Junior and Senior years take electives from the list offered for honors.

2. Candidates for the degree of Bachelor of Arts or Bachelor of Letters, who have completed the Sophomore year with an average standing in their Classical courses lower than the third group, are restricted in their choice of Classical electives to the list indicated on page 136.

3. Candidates for Honors in the Classical Humanities take four electives throughout the Junior and Senior year. At least two of the four electives throughout both years must be taken from the list offered for honors, and there must be one elective outside the Department of Classics. The fourth is a free elective.

Members of the Honors Course are also members of the Classical Pro-seminary throughout the Junior and Senior years.

4. Students who fail to maintain a satisfactory standing in the studies of the Honors Course will be required to leave the Honors Course and to choose their studies under the general plan.

5. At the end of Junior year a student may withdraw from the Honors Course and choose his studies under the general plan.

6. Those who satisfactorily complete the Honors Course will receive honors in the Classical Humanities with such grades of distinction as are now recognized.

7. Juniors and Seniors who were qualified at the end of Sophomore year to become members of the Honors

Course in the Classical Humanities, but who have become members of other departments, may choose one or more electives out of the list offered for Honors in the Classical Humanities and, so far as permitted by the regulations of the Faculty, may substitute the same for one or more of their own departmental electives.

N. B. Juniors and Seniors who are not entitled to be enrolled in the Honors Course are restricted in their choice of classical electives to the following list:

#### JUNIOR COURSES

Beginning 1908-1909

First Term

Aeschylus 53

Latin Literature 57

Second Term

Sophocles 54

Latin Literature 58

#### SENIOR COURSES

Beginning 1909-1910

Homer 79

Latin Elegiac Poets 81

Roman Law 89

Greek Lyric Poets 80

Virgil 82

#### THE PRO-SEMINARY

The Classical Pro-seminary extends through the Junior and Senior years. It is in charge of a Director, who attends to the admission and assignment of students, conducts the sessions of one section of the Pro-seminary each week, presides at the joint sessions of the sections, and exercises general supervision over all the work of the Pro-seminary. Each section holds a weekly session of at least one hour for the presentation and discussion of work based on the reading of classical writers. The aim of the Pro-seminary is to furnish each member of it an opportunity to work for himself and by himself—under regular guidance, but not under control—on some considerable portion of his main subject of study.

The Pro-seminary constitutes the supplementary and more flexible part of the Honors Course, and the list of authors and topics detailed below, while indicating the spirit and range of the work proposed, is provisional. It is subject to change in any term or year according to the needs and aptitudes of the students.

The following writers and topics are proposed for 1908-1909 and 1909-1910:

In Philosophy

Plato: One or more selected Dialogues.

Aristotle: Ethics.

Cicero: De Natura Deorum.

Cicero: De Officiis.

Seneca: Letters and Dialogues.

Ancient Science: Selections from Euclid, Archimedes, Diophantus, Hero, Ptolemy, Galen, and Hippocrates.

In History and Politics

Herodotus: The Oriental Empires.

Thucydides: The Sicilian Expedition.

Aristotle: Politics.

Demosthenes: On the Crown

Polybius: Selections.

Plutarch: Lives of Pericles and Julius Cæsar.

Appian: Civil War.

Literary Portraits of Greek Statesmen.

Cæsar: Civil War.

Tacitus: Annals.

Suetonius: The Twelve Cæsars.

Quintus Curtius: Alexander in Asia.

Roman Private Law: Justinian and Gaius.

Ancient Geography: Strabo.

In Art and Literature

Pausanias: Description of Attica.

Vitruvius: De Architectura.

Pliny: Chapters on Art, N. H. xxxv.

Ovid: *Metamorphoses* and *Epistles*.

The Homeric Hymns.

The New Comedy: Menander, Philemon, Diphilus.

Theocritus: The Idyls.

Epistles of Horace.

Quintilian: Book X.

Provision is also made for training in writing Greek and Latin through the Junior and Senior years for such as desire it.

#### CONSPECTUS OF ELECTIVES OFFERED

Beginning 1908-1909

At least two electives from this list to be taken throughout both years. Preceptorial reading of classical writers involved in every course.

*The course in italics is not yet arranged.*

SUBJECTS	JUNIOR YEAR	
	1ST TERM	2ND TERM
PHILOSOPHY	History of Philosophy Ormond Plato Winans	Lucretius Basore
HISTORY	Roman History Westcott	Roman History Westcott
POLITICS	Greek Public Life Capps	Greek Public Life Capps
ART	Classical Archaeology Tonks History of Architecture Butler	<i>Greek Painting</i>
POETRY: Greek	Æschylus Robbins	Sophocles Robbins
POETRY: Latin	Plautus Abbott	Roman Satire Abbott
HISTORY OF LITERATURE	Latin Literature of the Republic Kellogg	Latin Literature of the Empire D. Magie
ADDITIONAL SUBJECTS		

## Beginning 1909-1910

At least two electives from this list to be taken. Preceptorial reading of classical writers involved in every course.

*The course in italics is not yet arranged.*

SUBJECTS	SENIOR YEAR	
	1ST TERM	2ND TERM
PHILOSOPHY	Greek Philosophy Norman Smith	Greek Philosophy Norman Smith
HISTORY	Greek History Prentice	Greek History Prentice
POLITICS	Roman Public Life Abbott	Roman Public Life Abbott
ART	Greek Sculpture Marquand	Greek Architecture Butler
POETRY: Greek	Homer Robbins	Lyric Poets Winans
POETRY: Latin	Elegiac Poets Stuart	Virgil Stuart
HISTORY OF LITERATURE	<i>History of Greek Literature</i>	<i>History of Greek Literature</i> Classical Influence in English Literature Osgood
ADDITIONAL SUBJECTS	Roman Law Westcott	Comparative Grammar Robbins

## DESCRIPTIVE LIST OF JUNIOR AND SENIOR ELECTIVES

41. (Philosophy 31.) History of Philosophy. This course includes, (1) Greek and Roman philosophy to close of pagan schools. (2) Mediæval philosophy to fall of scholasticism and beginning of the modern era. Zeller: *Outlines*; Erdman; Windelband. Jun-

- ior course, first term, 3 hours a week. Prerequisite to History of Philosophy of second term, and Epistemology and Metaphysics of Senior year. Professor Ormond.
42. Lucretius. Criticism and interpretation of the *De Rerum Natura*, with emphasis upon the philosophic content. A survey of the Epicurean system of Lucretius will be given by the translation of selected books, analyses of those not read, and lectures. Junior course, second term, 3 hours a week. Professor Basore. (May count, for those qualified for the Honors Course in the Classical Humanities, as a course in Philosophy.)
43. Plato. One or more short dialogues entire, with substantial portions of others: Protagoras, Phædo, Phædrus, Gorgias, Republic. Study of form, style, and philosophic content. Junior course, first term, 3 hours a week. Professor Winans. (May count, for those qualified for the Honors Course in the Classical Humanities, as a course in Philosophy.)
45. Roman History. Roman History to the beginning of the Empire. The constitution of the primitive Roman state; the development of the social, political, and legal institutions of the Republic; the foreign conquests and the civil wars. A few lectures and some general text-book will furnish continuous guidance through the course. Special topics, as they are encountered, will be independently studied and results embodied in written reports. The preceptorial work will consist of reading in Latin or Greek historians. Junior course, first term, 3 hours a week. Professor Westcott. (May count, for those qualified for the Honors Course in the Classical Humanities, as a course in History.)
46. Roman History. Roman History from the begin-

ning of the Empire to the age of Justinian. The constitution of the empire, and its changes; the development of universal Roman law and cosmopolitan society; provincial administration; the rise of Christianity; the barbarian invasions and the beginnings of the nations of modern Europe. The method of the course will be similar to that of first term. Junior course, second term, 3 hours a week. Professor Westcott. (May count, for those qualified for the Honors Course in the Classical Humanities, as a course in History.)

- 47, 48. Greek Public Life. The lectures will describe the life of the Athenian citizen of the classical period in his relations to the state—his political, social, and religious activities. Attention will be given to the political experiments of the Greek states, to the rise of such conceptions as citizenship, liberty, democracy, oligarchy, and tyranny, and to the theories of the State formulated by the Greek political philosophers. The readings in Greek authors will be selected to illustrate the topics discussed in the lectures. Junior course, both terms, 3 hours a week. Professor Capps. (May count, for those qualified for the Honors Course in the Classical Humanities, as a course in Politics.)
49. (Art and Archæology 31.) Classical Archæology. A general outline of the history of Greek and Roman architecture, sculpture, painting, and the minor arts. Lectures and required reading. Reference books: Collignon: *Manual of Greek Archæology*; Martha: *L'Archéologie Etrusque et Romaine*. Junior course, first term, 3 hours a week. Professor Tonks.
51. (Art and Archæology 33.) Ancient Architecture. A course in the history of Egyptian, Assyrian, Persian, Greek, and Roman architecture. Two hours of lecture and one of historical drawing. Reference

books: Hamlin: *History of Architecture*; Sturgis: *European Architecture*. Junior course, first term, 3 hours a week. Prerequisite to 43, 44, Elements of Architecture. Professor Butler.

53. Aeschylus. One play will be translated and interpreted in detail, and its literary qualities, dramatic construction and stage-setting will be discussed. The other extant plays will be read, either in the original or in translations, and their plots and character discussed. Lectures will be given on the Greek Theatre, on Aeschylus, and on contemporary poets and dramatists. Junior course, first term, 3 hours a week. Professor Robbins in 1908-1909; Professor Prentice thereafter.
54. Sophocles. One or more plays will be translated, and their literary qualities, dramatic construction and stage-setting discussed. As far as possible these plays will also be read metrically. The other extant plays will be read, either in the original or in translations, and their plots and character discussed: also modern productions of these plays, and modern plays on the same subjects. Lectures will be given on the myths involved in these plays, and on Sophocles' life and works. Junior course, second term, 3 hours a week. Professor Robbins in 1908-1909; Professor Prentice thereafter.
55. Plautus. Four plays will be taken up. In studying the first two special attention will be given to the language and style of Plautus and to the rendering of his verse. In reading the other two the construction of the plot, the portrayal of character, costumes, stage-setting, and modern adaptations of the plays of Plautus will be the main subjects of study. Junior course, first term, 3 hours a week. Professor Abbott.



56. Roman Satire. This course will deal mainly with the Satires of Horace and with Persius. In reading Horace the construction of his Satires and his philosophy of life will be specially studied. In the work upon Persius the class will consider particularly the poet's attitude as a moralist and his literary indebtedness to Horace. Junior course, second term, 3 hours a week. Professor Abbott.
57. Latin Literature of the Republic. Study of the development of the Latin language, the national character, the several literary forms, and Greek influence. Assigned reading chiefly from Ennius, Plautus, Terence, Cato, Lucilius, Lucretius, Varro, Cicero, Sallust, and Catullus. Junior course, first term, 3 hours a week. Professor Kellogg.
58. Roman Literature of the Empire. One lecture, two recitations weekly. The lectures will give a general survey of the history of Roman Literature from Augustus to Marcus Aurelius. The other hours will be devoted to the study of representative works of this period, the purpose, construction, and literary qualities of which will be discussed by the students. Junior course, second term, 3 hours a week. Professor David Magie, Jr.
- 71, 72. (Philosophy 47, 48.) History of Greek Philosophy. Lectures and collateral reading. The following works will be read in the preceptorial conferences: The Pre-Socratic fragments, selected dialogues of Plato, the *De Anima*, the *Nicomachean Ethics* and parts of the *Metaphysics* of Aristotle. Senior course, both terms, 3 hours a week. Professor Norman Smith.
- 73, 74. Greek History. Lectures will be given on Greek History, from the earliest times to the Roman conquest, and on the methods, scope and results of

historical criticism. Collateral reading will be assigned in Bury's *History of Greece*. Portions of the works of Greek historians will be read in the original, and their testimony analyzed and compared. Senior course, both terms, 3 hours a week. Professor Prentice. (May count, for those qualified for the Honors Course in Classical Humanities, as a course in History.)

- 75, 76. Roman Public Life. The course will deal historically and topically with the magistracies, the senate, the popular assemblies, the courts, and with provincial administration. Frequent comparisons will be made with modern political institutions. The work, which will be adapted to students of Latin and of Political Science, will consist of lectures, reading, and the discussion of papers prepared by the members of the class. Senior course, both terms, 3 hours a week. Professor Abbott. (May count, for those qualified for the Honors Course in Classical Humanities, as a course in Politics.)
77. (Art and Archæology 41.) Greek Sculpture. A study of the technique, forms, composition, and history of Greek sculpture. Lectures and required reading. Gardner: *Handbook of Greek Sculpture*. Senior course, first term, 3 hours a week. Prerequisite course: Junior course in Classical Archæology. Professor Marquand.
78. (Art and Archæology 44.) Greek Architecture. The classic orders of ancient architecture, studied in their historical development, from reproductions of the ancient monuments, from the text of Vitruvius, and from the works of Vignola and Palladio. This course includes drawing to scale, with shades and shadows, and exercises in historical design. Ware: *The American Vignola*. Senior course, second term,

- 3 hours a week. Prerequisite course: Junior course in Ancient Architecture. Professor Butler.
79. Homer. Reading of selections from the Iliad and the Odyssey. Lectures on Greek epic poetry, and on the language and problems of the Homeric poems. Senior course, first term, 3 hours a week. Professor Robbins.
80. Lyric Poets. Survey of Greek poetic literature from Homer to Theocritus. Lectures and discussions; select readings, especially from the lyric poets; individual work with theses. Senior course, second term, 3 hours a week. Professor Winans.
81. Roman Elegiac Poets. Lectures on the history of the elegy; reading of the poems of Tibullus and Propertius and of selections from the Amores of Ovid. Senior course, first term, 3 hours a week. Professor Stuart.
82. Virgil. A study of the literary methods and the poetic art of Virgil; reading and discussion of the Eclogues and of selected books of the Aeneid; illustrative lectures and occasional critical interpretations. Senior course, second term, 3 hours a week. Professor Stuart.
86. Classical Influence in English Literature. The character and quality of English Literature as affected and determined by the influence of the classics; the varying aspects of this influence through four chief chronological periods—the early Renaissance, the late Renaissance, the pseudo-classical period, the nineteenth century; the spirit of the classics as manifest in both the form and content of English poetry. For the sake of definition the study will converge upon a few English masterpieces which best illustrate the larger tendencies of English classicism. The range of choice in reading may be

suggested by such names as Chaucer, Spenser, Shakespeare, Jonson, Milton, Pope, Shelley, Tennyson; Sophocles, Plato, Theocritus, Virgil, Seneca, and the Roman satirists. Senior course, second term, 3 hours a week. Professor Osgood. (May count, for those qualified for the Honors Course in the Classical Humanities, as a course in English.)

88. Comparative Grammar of Greek and Latin. Lectures on phonetics and the general principles of linguistic development; on the alphabets, sounds, forms and syntax of the Greek and the Latin as compared with each other. Practical exercises. The course is intended for men who expect to teach. Senior course, second term, 3 hours a week. Professor Robbins.
89. (Hist., Pol. and Econ. 51.) Roman Law. The history and institutes of Roman private law. Sohm: *Institutes of Roman Law*, English translation. The preceptorial work for students in the department of classics will be in the Institutes of Justinian or of Gaius. Senior course, first term, 3 hours a week. Professor Westcott.

The following Senior courses are offered for the year 1908-1909:

91. Aeschylus: selected plays. Lectures on the author and his plays. Senior course, first term, 3 hours a week. Professor Robbins.
80. Greek Poetry. Survey of Greek poetic literature from Homer to Theocritus. Lectures and discussions; select readings, especially from the lyric poets; individual work with theses. Senior course, second term, 3 hours a week. Professor Winans.
88. Comparative Grammar of Greek and Latin. Lectures and practical exercises. Reference books: Brugmann, Hirt, Lindsay, Meyer, Stolz. Senior

- course, second term, 3 hours a week. Professor Robbins.
81. The Roman Elegiac Poets. Professor Stuart. Or Roman Philosophy; Lucretius: *De Rerum Natura*. Reading and interpretation of the text, with occasional illustrative lectures in appreciation of the poem in its literary, scientific, and religious aspects. Thesis at end of course on some topic suggested by the work of the term. Professor Basore. Senior course, first term, 3 hours a week.
82. Virgil. A critical study of his literary development as illustrated in the *Bucolics*, the *Georgics*, and the *Æneid*. Senior course, second term, 3 hours a week. Professor Stuart.
97. Roman Literary Criticism. Quintilian: *Tenth book of the Institutio Oratoria*; Horace: *Epistles*; Tacitus: *The Dialogus*. Senior course, first term, 3 hours a week. Dean West.
98. Tacitus. Reading of the *Annals* or *Histories* of Tacitus, with special attention to the author's style as a writer and his aims and methods as an historian. Senior course, second term, 3 hours a week. Professor Westcott.
89. (Hist., Pol. and Econ. 51.) Roman Law. The History and Institutes of Roman Law. Sohm: *Institutes of Roman Law*, English translation. For students in the Honors Course in the Classical Humanities the preceptorial work will be in the Institutes of Justinian and Gaius in Latin: translation and exposition. Sandars (or other): *Justinian*; Robinson: *Selections from Roman Law*. Senior course, first term, 3 hours a week. Professor Westcott.

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For graduate courses in Classics, see Department of the Graduate School, pp. 215-226.

## V. DEPARTMENT OF ENGLISH

PROFESSORS HUNT, HENRY VAN DYKE, HARPER, PARROTT, AXSON, COVINGTON, CRAIG, CROLL, GEROULD, GRIFFIN, LONG, MAC DONALD, MILES, OSGOOD, ROOT, AND SPAETH; DR. G. D. BROWN, MR. BURT, DR. MURCH, AND DR. KENNEDY.

- 11, 12, *a*. Selected English authors, for special study and for general reading. The principles of composition and rhetoric will be derived therefrom. Frequent reports on assigned reading. Freshman required course, both terms, 2 hours a week for A.B., Litt.B., B.S., and C.E. Freshmen. Professor Covington, assisted by the English Preceptors and Instructors.
- 11, 12, *b*. To Freshmen who enter the Cliosophic or the American Whig Society there is offered, as a substitute for 11, 12, *a*, an elective course in Public Speaking and Debate. Freshman course, both terms, 2 hours a week for A.B., Litt.B., B.S., and C.E. Freshmen. Professor Covington, for the Cliosophic Society; and Professor Craig, for the American Whig Society.
21. Outline Sketch of English Literature. A brief survey of English literature from earliest times to the Victorian Age. Occasional lectures; oral and written recitations; reports on required reading. The reading in this course is designed to illustrate the various periods in the history of English literature. Sophomore elective, first term, 3 hours a week. Prerequisite to the choice of the English Department in Junior year. Professors Parrott, Axson, and Covington, assisted by the English Preceptors and Instructors.
31. English Literature: The Sixteenth Century. The

- revival of learning, the Reformation, the national awakening under the Tudors, and the influence of Italy, in their effect upon English letters. Spenser, Sidney, and Marlowe will be studied. Attention will be paid to the history of the drama and of lyric poetry, and to the narrative of Elizabethan voyagers. Junior course, first term, 3 hours a week. Prerequisite courses: Sophomore English for A.B.; Sophomore English and Latin for Litt.B. Professor Harper.
32. English Literature; Shakespeare. A study of some of Shakespeare's representative plays. Reference books: Dowden: *Shakspeare, His Mind and Art*; Boas: *Shakspeare and His Predecessors*. Junior course, second term, 3 hours a week. Professor Harper.
33. History of the English Language, with Old and Middle English Readings. Lectures on the history, vocabulary, and structure of the English language. Study of Middle English syntax. Selections from the Old English Gospels, and from Middle English authors, other than Chaucer. Emerson: *English Language*; Bright: *St. Matthew*; Morris and Skeat: *Specimens of Early English, Part II*. Junior course, first term, 3 hours a week. Prerequisite course: English 22. Prerequisite to English 34. Professor Hunt.
34. Elementary Old English. A grammatical and phonological study of Old English, with readings mainly from Old English prose literature. Smith: *Old English Grammar*; Baskerville and Harrison: *Anglo-Saxon Reader*. Junior course, second term, 3 hours a week. Prerequisite course: English 33. Prerequisite to English 45. Professor Hunt.
41. Restoration and Eighteenth Century Literature. Discussion of leading poets and prose writers from

Dryden to Burns, with especial emphasis on the rise of the romantic school. Senior course, first term, 3 hours a week. Professor Axson.

42. Seventeenth Century Literature. Lectures on the poets and prose writers during the age of Milton. The assigned reading will include the larger part of Milton's poetry, his *Areopagitica*, his *Letter on Education*, Browne's *Religio Medici*, Walton's *Compleat Angler*, and selections from the Cavalier poets. Senior course, second term, 3 hours a week. Professor Harper.
43. English Poetry of the Nineteenth Century. A literary study of some of the leading British poets. Senior course, first term, 3 hours a week. Professors Craig and Spaeth.
44. English Prose of the Nineteenth Century. A study of the chief prose-writers of the Romantic and Victorian eras. Senior course, second term, 3 hours a week. Professor Axson.

*Note.* The order of courses 43 and 44 is reversed in successive years, and the professors in charge alternate. The arrangement for 1908-1909 is as here stated, but in 1909-1910 the course in Prose will be given in the first term by Professor Henry van Dyke, and the course in Poetry will be given in the second term by Professor Axson.

45. Advanced Old English. Selections, mainly poetical, from Old English Literature will be read, under direction of the professor in charge and the preceptors, two hours a week. One hour a week will be devoted to lectures by the professor in charge on historical and critical topics. Sweet's *Anglo-Saxon Reader* or Bright's *Anglo-Saxon Reader* will be the basis for selections. *Elene* or *Andreas* may be used as special texts. A thesis will be required of de-



- partment students. Senior course, first term, 3 hours a week. Prerequisite course: English 34. Professor Hunt.
46. Chaucer and his Contemporaries. Lectures on Chaucer, his period, his language, and his contemporaries. The reading will include the greater part of Chaucer's poetry, together with selections from Langland, Gower, Wyclif, and the author of *Sir Gawaine and the Green Knight*. A thesis of considerable length, embodying the results of independent investigation, conducted under the guidance of the preceptors, will be required of every student. One hour a week will be devoted to lectures and two hours a week to preceptorial conferences. Skeat: *Student's Chaucer*; Skeat: *Piers Plowman*. A handbook dealing with the period will also be used. Senior course, second term, 3 hours a week. Prerequisite course: English 33. Professor Parrott.
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THE PRO-SEMINARY in English will be conducted during both terms under the direction of Professor Gerould. This pro-seminary will be divided into several sections according to the needs of its members, each section to be in the charge of one of the professors or preceptors. Opportunity will be given to study the language and literature of the earlier periods, and various aspects of the later literature.

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For graduate courses in English, see Department of the Graduate School, pp. 226, 227.

## VI. DEPARTMENT OF MODERN LANGUAGES

PROFESSORS VREELAND, GAUSS, HOSKINS, BLAU, BEAM,  
 BUFFUM, COLLINS, CRITCHLOW, KOREN, MOORE, NORTHUP,  
 PRIEST, THAYER, AND MICHAUD; DR. LYON, DR.  
 MATHEWS, DR. RICHARDS, MR. STUART, AND  
 MR. JONES.

## GERMANIC SECTION

- 11, 12. Beginners' German. Grammar, reading, and composition. Freshman course, both terms, 3 hours a week. Professor Beam and Mr. Jones.
- 13, 14. German Prose and Poetry. Reading of selected works with drill in grammar and exercises in composition. Freshman course, both terms, 2 hours a week for A.B. Freshmen; 3 hours a week for Litt.B. and B.S. Freshmen. Prerequisite course: Entrance German A. Prerequisite to Sophomore German. Professor Blau, Dr. Lyon, Dr. Richards, and Mr. Jones.
- 21, 22. Beginners' German. Grammar, reading, and composition. Sophomore elective course, both terms, 3 hours a week. Professor Beam and Mr. Jones.
- 23, 24. Sophomore German. An introduction to German literature of the eighteenth and nineteenth centuries. Reading of selected works; collateral reading. Müller: *German Classics*. Reference book: Selss: *Outlines of German Literature*. Sophomore elective course, both terms, 3 hours a week. Prerequisite course: German 13, 14, or entrance German B. Prerequisite to German 31, 32; 41, 42; 43, 44. Professors Priest and Thayer.
- 31, 32. German Literature from Opitz to Schiller. First term: selected works of Wieland and Lessing will be read and interpreted in the class; collateral reading in both German and English; lectures on German

- literature from Opitz to Lessing's death. Second term: selected works of Schiller; collateral reading in both German and English; lectures on German literature from Lessing's death to Schiller's death. Reference books: Scherer's, Robertson's and Francke's histories of German literature. Junior course, both terms, 3 hours a week. Prerequisite course: German 23, 24. Professor Hoskins.
- 33, 34. Goethe's Life and Works. Lectures and reading. Götz von Berlichingen, Werthers Leiden, Iphigenie, Tasso, Hermann und Dorothea, Faust, Gedichte, Dichtung und Wahrheit, with collateral reading. Reference books: English and German works on Goethe's life and on Faust. Junior course, both terms, 3 hours a week. Prerequisite course: German 23, 24. Professor Blau.
- 41, 42. The Romantic School in Germany and German Literature since Goethe's death. This course comprises the reading of selected works, lectures, and collateral reading. Senior course, both terms, 3 hours a week. Prerequisite course: German, 23, 24. Professor Beam.
- 43, 44. Middle High German. Elements of Middle High German grammar. Readings in the medieval German lyric poetry in the first term, and in the epic poetry of the same period in the second term. Senior course, both terms, 3 hours a week. Prerequisite course: German 23, 24. Professor Priest.

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THE MODERN LANGUAGE PRO-SEMINARY, open to qualified Seniors, is in charge of Professor Vreeland.

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ROMANIC SECTION

- 11, 12. Beginners' French. Grammar, composition, and reading, Fraser and Squair: *Grammar*. Freshman

course, both terms, 3 hours a week. Professor Collins, Dr. Mathews, and Mr. Stuart.

- 13, 14. Freshman French. This course consists of reading and practical exercises in French syntax and composition, and collateral reading. Freshman course, both terms, 2 hours a week for A.B. Freshmen, 3 hours a week for Litt.B. and B.S. Freshmen. Prerequisite course: Entrance French A. Prerequisite to Sophomore French. Professors Buffum, Collins, and Critchlow, Dr. Mathews, and Mr. Stuart.
- 21, 22. Beginners' French. Grammar, composition, and reading. Fraser and Squair: *Grammar*. Sophomore elective, both terms, 3 hours a week. Professor Collins, Dr. Mathews, and Mr. Stuart.
- 23, 24. Sophomore French. General introduction to the study of French literature. This course consists of a general survey of French literature, based on textbooks, with a study of representative works of different periods. Sophomore elective, both terms, 3 hours a week. Prerequisite course: French 13, 14, or Entrance French B. Prerequisite to French 31, 32; 41, 42; 43, 44. Professors Vreeland and Moore.
- 31, 32. French. The French literature of the seventeenth century. Special attention is given to the development of the drama and to the general characteristics of the age of Louis XIV. The course also includes a general view of the first half of the eighteenth century and selections from Le Sage, Marivaux, and Voltaire. Junior course, both terms, 3 hours a week. Prerequisite course: French 23, 24. Professor Koren.
35. Italian. Grammar, composition, and reading. Grandgent: *Italian Grammar*. Junior course, first term, 3 hours a week. Prerequisite to Italian 36. Professor Koren.

36. Italian. Reading of the *Inferno* of Dante. Scartazzini: *La Divina Commedia di Dante Alighieri*. Junior course, second term, 3 hours a week. Prerequisite course: Italian 35. Prerequisite to Italian 45. Professor Gauss.
- 37, 38. Spanish. Grammar, composition, and reading from modern Spanish authors. Junior course, both terms, 3 hours a week. Prerequisite to Spanish 47, 48. Professors Critchlow and Northup.
- 41, 42. French. The Romantic Movement. A general view of French literature from Rousseau to contemporary writers, with particular attention to the generation of 1830; the gradual transformation of the earlier Romanticism; the Parnassian school of poetry; the realistic novel; Taine and later criticism. Recitations and reports, with occasional lectures. A large amount of reading is required. Senior course, both terms, 3 hours a week. Prerequisite course: French 23, 24. Professor Gauss.
- 43, 44. Old French. A study of the language and literature of France from its origin to the Renaissance. This course consists of a general survey of the history of the language, and of the extensive reading of texts with special attention to their literary side. Senior course, both terms, 3 hours a week. Prerequisite course: French 23, 24. Professor Buffum.
45. Italian. Readings in the *Purgatorio* and the *Paradiso* of Dante. Scartazzini: *La Divina Commedia di Dante Alighieri*. The course will include also a study of the precursors of Dante; Petrarch and Boccaccio. Recitations and lectures. Senior course, first term, 3 hours a week. Prerequisite course, Italian 36. Prerequisite to Italian 46. Professor Gauss.
46. Italian. Reading of selections from Petrarch, Boccaccio, and authors of the Fifteenth and Sixteenth

Centuries. Lectures on the Italian literature from the time of Dante. Senior course, second term, 3 hours a week. Prerequisite course: Italian 45. Professor Koren.

47. Spanish. General survey of Spanish literature and extensive readings from modern Spanish authors. Senior course, first term, 3 hours a week. Prerequisite courses: Spanish 37, 38. Prerequisite to Spanish 48.
48. Spanish. Spanish literature of the Golden Age and readings from Cervantes, Calderón, and Lope de Vega. Senior course, second term, 3 hours a week. Prerequisite courses: Spanish 37, 38, 47.

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THE MODERN LANGUAGE PRO-SEMINARY, open to qualified Seniors, is in charge of Professor Vreeland.

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For graduate courses in Modern Languages, see the Department of the Graduate School, pp. 227-229.

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#### COURSES NOT INCLUDED IN ANY OF THE PRECEDING DEPARTMENTS

- 41, 42. Sanskrit. Senior course, both terms, 3 hours a week. Professor Winans. (This course falls in Division C.)
- 43, 44. Biblical Literature. Lectures and Preceptorial Work.

1908-1909. Origin, development, nature and content of the literature of the New Testament. First term: General introductory lectures upon religion and the Bible, followed by a study of the four Gospels, the life of Christ, and the nature of Christianity. Required reading: the Gospels; Dods:

*The Bible, Its Nature and Origin*; Mathews: *New Testament Times*; Rhees: *Life of Jesus of Nazareth*; Percy Gardner: *An Historical View of the New Testament*. Second term: Introductory lectures and study of the Pauline and post-Pauline New Testament literature. Required reading: the remaining New Testament books; Sabatier: *Philosophy of Religion*; Ropes: *Apostolic Age*; Bruce: *St. Paul's Conception of Christianity*.

1909-1910. Origin, development, nature and content of the literature of the Old Testament. First term: General introductory lectures upon religion and the Bible, followed by a study of the pre-Exilic Old Testament literature. Required reading: Several pre-Exilic Old Testament Writings; Dods: *The Bible, Its Nature and Origin*; Addis: *The Hebrew Religion*; Cornill: *The Prophets of Israel*; Kent: *History of the Hebrew People (United Kingdom and Divided Kingdom)*. Second term. The Exilic and post-Exilic Old Testament literature. Required reading: Several Exilic and post-Exilic Old Testament Writings; Sabatier: *Philosophy of Religion*; Cornill: *The Prophets of Israel*; Kent: *History of the Hebrew People (Babylonian, Persian and Greek Periods)*. This course, while dealing primarily with the literature of the Old Testament, includes a thorough discussion, in preceptorial hours, of the nature and significance of Christianity.

Senior course, both terms, 3 hours a week. Professor Miller. (This course falls in Division C.)

## JOHN C. GREEN SCHOOL OF SCIENCE

## FACULTY

- WOODROW WILSON, PH.D., LITT.D., LL.D., *President.*  
HENRY BURCHARD FINE, PH.D., *Dean of the Faculty, Dod Professor of Mathematics.*  
ANDREW FLEMING WEST, PH.D., LL.D., HON. D. LITT. (Oxon.), *Dean of the Graduate School.*

- HENRY BEDINGER CORNWALL, E.M., PH.D., *Professor of Chemistry and Mineralogy.*  
CHARLES McMILLAN, A.M., C.E., *Professor of Civil Engineering.*  
WILLIAM LIBBEY, D.Sc., *Professor of Physical Geography.*  
WILLIAM BERRYMAN SCOTT, PH.D., LL.D., *Blair Professor of Geology.*  
FREDERICK NEWTON WILLSON, A.M., C.E., *Professor of Graphics.*  
WILLIAM FRANCIS MAGIE, PH.D., *Clerk of the University Faculty, Professor of Physics.*  
LEROY WILEY McCAY, D.Sc., *Professor of Chemistry.*  
HENRY DALLAS THOMPSON, D.Sc., PH.D., *Professor of Mathematics.*  
HERBERT STEARNS SQUIER SMITH, C.E., *Professor of Civil Engineering.*  
WALTER BUTLER HARRIS, C.E., *Professor of Geodesy.*  
ELMER HOWARD LOOMIS, PH.D., *Professor of Physics.*  
WALTER MEAD RANKIN, PH.D., *Professor of Biology.*  
CHARLES FREEMAN WILLIAMS MCCLURE, D.Sc., *Professor of Zoology.*  
ALEXANDER HAMILTON PHILLIPS, D.Sc., *Professor of Mineralogy.*  
FRED NEHER, A.M., *Professor of Chemistry.*  
CHARLES HENRY SMYTH, JR., PH.D., *Professor of Geology.*  
JAMES HOPWOOD JEANS, M.A., F.R.S., *Professor of Applied Mathematics.*  
HOWARD McCLENAHAN, E.E., M.S., *Professor of Physics.*  
OWEN WILLANS RICHARDSON, M.A., D.Sc., *Professor of Physics.*  
AUGUSTUS TROWBRIDGE, PH.D., *Professor of Physics.*  
EDWIN GRANT CONKLIN, PH.D., Sc.D., *Professor of Biology.*  
MALCOLM MACLAREN, E.E., *Professor of Electrical Engineering.*  
ULRIC DAHLGREN, M.S., *Assistant Professor of Biology.*



GEORGE AUGUSTUS HULETT, PH.D., *Assistant Professor of Physical Chemistry.*

WILLIAM FOSTER, PH.D., *Assistant Professor of Chemistry.*

EDWIN PLIMPTON ADAMS, PH.D., *Assistant Professor of Physics.*

PHILIP ELY ROBINSON, PH.D., *Assistant Professor of Physics.*

HERWARD LESTER COOKE, M.A., *Assistant Professor of Physics.*

RAYMOND SMITH DUGAN, PH.D., *Assistant Professor of Astronomy.*

HENRY NORRIS RUSSELL, PH.D., *Assistant Professor of Astronomy.*

GILBERT VAN INGEN, *Assistant Professor of Geology.*

LUTHER PFAHLER EISENHART, PH.D., *Preceptor in Mathematics.*

WILLIAM GILLESPIE, PH.D., *Preceptor in Mathematics.*

OSWALD VEBLEN, PH.D., *Preceptor in Mathematics.*

JOHN GALE HUN, PH.D., *Preceptor in Mathematics.*

CHARLES RANALD MACINNES, PH.D., *Preceptor in Mathematics.*

CARL EBEN STROMQUIST, PH.D., *Preceptor in Mathematics.*

MARCUS STULTS FARR, D.Sc., *Preceptor in Geology.*

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#### INSTRUCTORS

ELIJAH SWIFT, PH.D., *Instructor in Mathematics.*

FRANK IRWIN, PH.D., *Instructor in Mathematics.*

CLINTON JOSEPH DAVISSON, B.S., *Instructor in Physics.*

PHILLIPS THOMAS, B.S., *Instructor in Electrical Engineering and Physics.*

LIONEL HERMAN DUSCHAK, PH.D., *Instructor in Chemistry.*

DONALD PRITCHARD SMITH, PH.D., *Instructor in Chemistry.*

WILLIAM RICHEY HULSIZER, A.B., *Assistant in Chemistry.*

WILLIAM LEWIS PERDUE, B.S., *Assistant in Chemistry.*

WILLIAM DOLTON PARDOE, A.M., *Assistant in Mineralogy.*

WILLIAM JOHN SINCLAIR, PH.D., *Instructor in Geology.*

CHARLES FREDERICK SILVESTER, *Assistant in Anatomy.*

GUY CHESTER CRAMPTON, PH.D., *Assistant in Biology.*

EDWARD CHARLES MCWILLIAMS, B.S., *Instructor in the Department of Civil Engineering.*

WILLIAM EARL CORY, C.E., *Instructor in the Department of Civil Engineering.*

GEORGE GILBERT CORNWELL, C.E., *Instructor in the Department of Civil Engineering.*

JOHN HAVRON, JR., C.E., *Instructor in the Department of Civil Engineering.*

## D. DIVISION OF MATHEMATICS AND SCIENCE

## -VII. DEPARTMENT OF MATHEMATICS

DEAN FINE, PROFESSORS THOMPSON, JEANS, EISENHART,  
GILLESPIE, VEULEN, HUN, MACINNES, AND STROMQUIST;  
DR. SWIFT, DR. IRWIN, MR. MACNEISH, MR. MATHEWS,  
AND MR. MITCHELL

11. Plane Trigonometry. Definitions of the six trigonometric functions as ratios, relations between these six functions, values of the functions for  $0^\circ$ ,  $30^\circ$ ,  $45^\circ$ ,  $60^\circ$ ,  $90^\circ$ ,  $120^\circ$ ,  $135^\circ$ , etc., etc., formulas for the sine, cosine, and tangent of the sum or difference of two angles for all angles, formulas for the sum or difference of two sines or two cosines, expressions for the functions of double and half angles, trigonometric identities and equations, theory of logarithms and the use of trigonometric tables, and the solution of right and oblique plane triangles. The circular measure of angles. The inverse trigonometric functions. Required of all Freshmen who do not take Spherical Trigonometry 13; half of first term, 4 hours a week. Professors Gillespie, Hun, MacInnes, and Stromquist; Dr. Swift, Dr. Irwin, Mr. MacNeish, Mr. Mathews, and Mr. Mitchell.
13. Spherical Trigonometry and Applications of Trigonometry. Required of all Freshmen who do not take Plane Trigonometry 11; half of first term, 4 hours a week. Professors Gillespie, Hun, MacInnes, and Stromquist; Dr. Swift, Dr. Irwin, Mr. MacNeish, Mr. Mathews, and Mr. Mitchell.
- 15, 16. Selected Portions of Algebra and Elementary Theory of Equations. Theory of the fundamental

- operations and of the solution of conditional equations. Method of undetermined coefficients. The division transformation, synthetic division, the remainder theorem. Highest common factor. Partial fractions. Graphs of equations of the first and second degree in two variables. Theory of Equations. Determinants. Fine: *College Algebra*. Required of all Freshmen, half of first term and half of second term, 4 hours a week. Professors Gillespie, Hun, MacInnes, and Stromquist; Dr. Swift, Mr. Mathews, and Mr. Mitchell.
18. Conic Sections, Treated from the Cartesian Standpoint. Required of all Freshmen, half of second term, 4 hours a week. Professors Fine, Thompson, Gillespie, Hun, MacInnes, and Stromquist; Dr. Swift, Dr. Irwin, Mr. MacNeish, Mr. Mathews, and Mr. Mitchell.
- 21, 22. Calculus. Required of all C.E. Sophomores; elective course, open to all Sophomores who are candidates for a Bachelor's degree; both terms, 3 hours a week. Prerequisite to the Departments of Mathematics and Physics. Professors Thompson, Veblen, Hun, MacInnes, and Stromquist; Dr. Swift.
23. Geometry, a course supplementary to course 18. Required of all C.E. Sophomores, first term, 2 hours a week. Professors Thompson, MacInnes, and Stromquist.
24. Analytical Mechanics. Introductory course. Required of all C.E. Sophomores, second term, 2 hours a week. Professors Eisenhart, Gillespie, Veblen, and Hun.
- 31, 32. Analytic Solid Geometry, and Elementary Differential Equations. Junior course, both terms, 3 hours a week. Professor Thompson.

- 33, 34. (Physics 33, 34.) Analytical Mechanics. The general principles of mechanics; the statics and dynamics of particles, rigid bodies, and fluids. Lectures. Junior course, both terms, 3 hours a week. Prerequisite courses: Mathematics 21, 22. Professor Veblen.
- 35, 36. Analytical Mechanics. Required of all C.E. Juniors, both terms, 3 hours a week. Professors Eisenhart and Gillespie.
- 41, 42. Advanced Calculus and Higher Algebra. Elementary course introductory to the notions and methods of modern mathematical analysis. Lectures. Senior course, both terms, 3 hours a week. Prerequisite to the graduate courses in mathematics and astronomy. Professor Gillespie.
- 45, 46. (Physics 43, 44.) Theoretical Physics. A course in the mathematical theory of electricity and magnetism. J. J. Thomson: *Elements of Electricity and Magnetism*. Lectures. Senior course, both terms, 3 hours a week. Prerequisite courses: Mathematics 21, 22; 33, 34. Professor Richardson.
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#### HONORS COURSES IN MATHEMATICS

Candidates for a Bachelor's degree, who have been ranked in Freshman year in the first or second group in mathematics, may enter as candidates for honors in mathematics and physics at the beginning of Sophomore year. Other candidates from the same class may be admitted on recommendation of the Department of Mathematics.

The Department of Mathematics offers, in conjunction with the Department of Physics, the following courses, which are open to candidates for honors in mathematics and physics:

- 25, 26. Honors course in Calculus: Differential and Integral Calculus. Differentiation of algebraic and elementary transcendental functions. Integration. Properties of continuous functions. Applications of differentiation including maxima and minima. Definite integrals. Geometrical and physical applications. Special curves. Curvature. Envelopes. Infinite series and Taylor's theorem. Analytical Geometry of Three Dimensions. The plane. The right line in space. The tangent plane and normal to a surface. Exclusive with Mathematics 21, 22. Sophomore course, both terms, 4 hours a week. Prerequisite to the honors courses of Junior year. Dean Fine.
- 35, 36, A. Honors course in Pure Mathematics: Geometry. Coordinate Geometry. The general equation of the second degree. Diameters and polars. Metric properties of conics. Coordinate Systems in Space. Transformation of coordinates. The general equation of the second degree and the classification of quadric surfaces. Centers, conjugate diameters, and plane sections of quadrics. Generating lines. General properties of twisted curves and surfaces. Junior course, both terms, 3 hours a week. Prerequisite to Pure Mathematics, 47, 48, a. Professor Thompson.
- 37, 38, B. Honors course in Analysis: Higher Integral Calculus. Special integrals, including Beta and Gamma functions, and elliptic integrals, approximate evaluation of definite integrals. Volume and surface integrals. Mean value and probability. Fourier's series. Differential Equations. Equations of the first order and linear equations with constant coefficients. Singular solutions. Linear equations of the second order. Equations of Legendre, Bessel,

- and Riccati. Functions of Legendre and Bessel. Hypergeometric series. Equations with more than one dependent variable. Introduction to partial differential equations and calculus of variations. Junior course, both terms, 3 hours a week. Prerequisite to Analysis 49, 50, *b*. Professor Veblen.
- 39, 40, *C*. Honors course in Applied Mathematics: Analytical Mechanics. (Physics 35, 36, *c*.) Mechanics. Kinematics. Laws of motion. Statics of particles and rigid bodies. Centre of gravity. Work and energy. Stability and instability. Motion of particles under constant and variable forces. Orbits. Motion of rigid bodies. Generalized coordinates and Lagrange's equations. Small oscillations. Hydrostatics. Pressure of fluids. Floating bodies, metacentre. Capillarity. Pressure of a gas. Junior course, both terms, 3 hours a week. Prerequisite to Applied Mathematics 50, 51, *c*. Professor Jeans.
- 47, 48, *a*. Honors course in Pure Mathematics. Geometry. Projective Geometry. Homogeneous point and line coordinates. Conic sections. Theory of algebraic plane curves. Invariants and covariants of ternary forms. The postulates of synthetic projective geometry. The relation of analytic to synthetic geometry. The principle of duality. Projectivity of one-dimensional forms. Elementary configurations. Conic sections and quadratic surfaces. Linear congruences and complexes. Collineations in the plane and in space. Real and imaginary elements in geometry. Senior course, both terms, 3 hours a week. Prerequisite course: Pure Mathematics 35, 36, *A*. Professor Veblen.
- 49, 50, *b*. Honors course in Analysis: Theory of Func-

tions of a Complex Variable. Representation of the complex variable on the plane and sphere. The linear fractional function. Monogenic functions. Operations with infinite series and products. The exponential, logarithmic and trigonometric functions. Conformal mapping. Cauchy's theorem. Taylor's and Laurent's series. Singular points. Residues. The fundamental theorem of algebra. The evaluation of definite integrals. Periods of integrals. Inverse functions. Simple algebraic functions and their representation on Riemann surfaces. Weierstrass' factor theorem. Introduction to elliptic functions. Analytic continuation and the theory according to Weierstrass. Senior course, both terms, 3 hours a week. Professor Eisenhart.

- 51, 52, *c.* (Physics 45, 46, *c.*) Honors course in Applied Mathematics: Electricity and Magnetism. Theory of the potential and of lines and tubes of force. The principles of electrostatics. The electrostatic field. System of charged conductors. Dielectrics. Special problems of electrostatics. Currents of electricity in linear conductors. The flow of electricity in solid conductors and in dielectrics. The principles of magnetism. Induced magnetism. Terrestrial magnetism. The magnetic field produced by electric currents. Induction in linear circuits. The general equations of the electromagnetic field. Electromagnetic waves and the electromagnetic theory of light. The motion of electrons. Senior course, both terms, 3 hours a week. Prerequisite course: Applied Mathematics 39, 40, *C.* Professor Jeans.

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For graduate courses in Mathematics, see Department of the Graduate School, pp. 229-232.

## VIII. DEPARTMENT OF PHYSICS

PROFESSORS W. F. MAGIE, LOOMIS, MC CLENAHAN, RICHARDSON, TROWBRIDGE, ADAMS, ROBINSON, AND COOKE; MR. DAVISSON, MR. THOMAS, MR. POMEROY, AND MR. HULBIRT

- 11, 12. Elementary Experimental Physics. Beginners' course in physics, including classroom and laboratory work. Millikan and Gale: *First Course in Physics*. For Litt.B., B.S., and C.E. Freshmen, both terms, 4 hours a week. For this course a fee of \$5 is charged, and a deposit on apparatus of \$5 is required. Professors McClenahan and Cooke, Mr. Davisson, Mr. Thomas, Mr. Pomeroy, and Mr. Hulbirt.
- 21, 22. General Physics. A descriptive course in general physics, including mechanics, illustrated by experiments. Crew: *General Physics*. Sophomore course, required for A.B., both terms, 3 hours a week. Professor Trowbridge.
- 23, 24. General Physics. Lectures, based on experimental demonstrations. Frequent written recitations. Hastings and Beach: *Physics*. Sophomore course, required for Litt.B., B.S., and C.E., both terms, 3 hours a week. Professor Loomis.
- 31, 32. Experimental Physics. A course in experimental physics, with lectures and laboratory work. Miller: *Laboratory Physics*. Reference books: Stewart and Gee; Millikan. Junior course, both terms, 3 hours a week. Professors Loomis and Robinson.
- 33, 34. (Mathematics 33, 34.) Analytical Mechanics. The general principles of mechanics; the statics and dynamics of particles, rigid bodies, and fluids. Lectures. Junior course, both terms, 3 hours a week. Prerequisite course, Mathematics 21, 22. Professors Eisenhart, Gillespie, and Veblen.



- 41, 42. Theoretical Physics. A course in the elementary mathematical theories of heat and light. Lectures. Senior course, both terms, 3 hours a week. Prerequisite course: Mathematics 21, 22. Professors W. F. Magie and Robinson.
- 43, 44. (Mathematics 45, 46.) Theoretical Physics. A course in the mathematical theory of electricity and magnetism. J. J. Thomson: *Elements of Electricity and Magnetism*. Lectures. Senior course, both terms, 3 hours a week. Prerequisite courses: Mathematics 21, 22; 31, 32. Professors Richardson and Cooke.
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#### HONORS COURSES IN PHYSICS

The Department of Physics offers, in conjunction with the Department of Mathematics, the following courses, which are open to candidates for honors in mathematics and physics:

- 25, 26. Honors course in General Physics. Mechanics, including kinematics, statics, and dynamics. Hydrostatics. Properties of matter. Heat. Light, chiefly from the standpoint of geometrical optics. Magnetism and electricity. Sophomore course, both terms, 3 hours a week. Those taking this course do not take Physics 21, 22 or 23, 24. Professor W. F. Magie.
- 35, 36, C. (Mathematics 39, 40, C.) Honors course in Analytical Mechanics. Mechanics. Kinematics. Laws of motion. Statics of particles and rigid bodies. Centre of gravity. Work and energy. Stability and instability. Motion of particles under constant and variable forces. Orbits. Motion of rigid bodies. Generalized coordinates and Lagrange's equations. Small oscillations. Hydro-

statics. Pressure of fluids. Floating bodies, meta-centre. Capillarity. Pressure of a gas. Junior course, both terms, 3 hours a week. Professor Jeans.

37, 38, *D*. Theoretical Physics.

*a*. Heat and Thermodynamics. General principles of thermometry and calorimetry. Elementary theory of conduction of heat. Elementary treatment of the kinetic theory of matter. Maxwell's law of distribution. Van der Waals's equation. Radiation. Theory of exchanges. General principles of thermodynamics. Thermodynamic relations. Properties of homogeneous bodies. Change of state. Theory of solutions. Sound. Kinematics of wave motion. Reflection of waves. Stationary waves in strings and rods. Sound waves in air. Fundamentals and overtones. Beats and resultant tones.

*b*. Physical Optics. Elementary discussion of the undulatory theory. Interference, Young's and Fresnel's experiments. Diffraction. Applications to the theory of optical instruments. Double refraction and polarization. Simple cases of effects of crystal plates. Rotary polarization. Dispersion and absorption. Spectrum analysis. Junior course, both terms, 3 hours a week. Professors Trowbridge and Adams.

39, 40, *E*. Experimental Physics. Experiments in mechanics, properties of matter, sound, heat, and light. Junior course, both terms, 3 hours a week. Professors Loomis and Robinson.

45, 46, *c*. (Mathematics 51, 52, *c*.) Theory of Electricity and Magnetism. Theory of the potential and of lines and tubes of force. The principles of electrostatics. The electrostatic field. System of charged conductors. Dielectrics. Special problems of

electrostatics. Currents of electricity in linear conductors. The flow of electricity in solid conductors and in dielectrics. The principles of magnetism. Induced magnetism. Terrestrial magnetism. The magnetic field produced by electric currents. Induction in linear circuits. The general equations of the electromagnetic field. Electromagnetic waves and the electromagnetic theory of light. The motion of electrons. Senior course, both terms, 3 hours a week. Professor Jeans.

47, 48, *d*. Theoretical Physics.

*a*. Hydrodynamics. Equations of fluid motion. Integration in special cases. Velocity potential and irrotational motion. Motion of solids through fluids. Vortex motion. Waves. Motion of viscous fluids. Wave Theory. General theory of vibrations. Forced vibrations, resonance. Damped vibrations. Solutions for free vibrations of strings and membranes. Equations of motion of elastic media. Huygen's principle. Anisotropic media. Fresnel's surface.

*b*. The Electron Theory. Atomic theory of electricity. Conduction in liquids. Maxwell's views, Lorentz's theory. Zeeman effect. Electromagnetic mass. Ionization. Conduction through gases. Determination of the ratio of the charge on an ion to its mass. Determination of the charge. Isolation of the electron. Electron theory of metallic conduction. Radioactivity. Theories of atomic structure. Senior course, both terms, 3 hours a week. Professors Adams and Richardson.

49, 50, *e*. Experimental Physics. Experiments in electricity and magnetism. Lectures on electrical measurements.

Special problems involving exercise in the experi-

mental methods used in research. Senior course, both terms, 3 hours a week. Professor Cooke.

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For graduate courses in Physics, see Department of the Graduate School, pp. 233-235.

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#### IX. DEPARTMENT OF CHEMISTRY

PROFESSORS CORNWALL, MC CAY, NEHER, HULETT, AND FOSTER; DR. DUSCHAK, DR. SMITH, MR. HULSIZER, AND MR. PERDUE

- 11, 12. General Inorganic Chemistry. Experimental lectures and recitations on the elements and their compounds. Newell: *Descriptive Chemistry*. Required course for C.E. Freshmen, both terms, 3 hours a week. Professor McCay, assisted by Dr. Smith.
- 21, 22. General Inorganic Chemistry. Experimental lectures on the elements and their compounds, supplemented by laboratory work. Two lectures and one laboratory exercise of 4 hours each week. The laboratory work is in part introductory to qualitative analysis. Smith: *General Chemistry for Colleges*. Sophomore elective, both terms, 3 hours a week. Prerequisite to all later courses in chemistry and mineralogy and to the Departments of Chemistry, Biology, and Geology. Professor McCay. Laboratory work. Professor Foster, assisted by Dr. Smith, Dr. Duschak, Mr. Hulsizer, and Mr. Perdue.
31. Advanced Inorganic and Theoretical Chemistry. *a.* Chemistry of the Metals and *b.* Chemical Theories. Lectures and written recitations. Newth: *Inorganic*

*Chemistry*; Dobbin and Walker: *Chemical Theory*; Ostwald: *Outlines of Theoretical Chemistry*. Junior course, first term, 3 hours a week. Prerequisite course: General Inorganic Chemistry. Required in the Department of Chemistry. Professor McCay.

- 32 a. Organic Chemistry. Introductory course devoted to the study of the properties, relationships, synthesis, and structure of the more important classes of acyclic compounds. Junior course, second term, 3 hours a week. Prerequisite courses: General Chemistry and Qualitative Analysis. Prerequisite to all later courses in Organic Chemistry. Required in the Department of Chemistry. Professor Neher.
- 32 b. Organic Chemistry. General course devoted to the study of the properties, relationships, synthesis, and structure of the most important classes of aliphatic and aromatic compounds. Two lectures and one laboratory exercise each week. Cohen: *Theoretical Organic Chemistry*. Junior course, second term, 3 hours a week. Prerequisite courses: General Chemistry and Qualitative Analysis. Required in the Department of Biology. Professor Foster.
33. Qualitative Analysis. The study and practice of the methods for separating and detecting the more common bases and acids and their derivatives, followed by the analysis of simple and complex substances. The course involves about 8 hours of laboratory work, besides classroom exercises, each week. Junior course, first term, 3 hours a week. Prerequisite course: General Chemistry. Prerequisite to all later courses in chemistry. Required in the Departments of Chemistry and Biology. Professor Foster, assisted by Dr. Smith and Dr. Duschak.

34. **Quantitative Analysis.** The theory and practice of typical gravimetric and volumetric analyses, chiefly the analyses of simple salts. This course involves about nine hours of laboratory work, in addition to one or more class exercises, each week. Junior course, second term, 3 hours a week. Prerequisite courses: General Chemistry and Qualitative Analysis. Prerequisite to the Senior courses in Quantitative Analysis and to Organic Chemistry 45. Required in the Department of Chemistry. Professor McCay, assisted by Mr. Hulsizer.
41. **Quantitative Analysis.** Continuation of Quantitative Analysis 34, including more complex substances, salts, minerals, and alloys. This course involves about nine hours of laboratory work, in addition to one or more class exercises, each week. Senior course, first term, 3 hours a week. Prerequisite courses: General Inorganic Chemistry, Qualitative Analysis, Quantitative Analysis 34. Required in the Department of Chemistry. Professor Cornwall.
42. **Volumetric Analysis (and Practice in Combustions).** Standard methods in alkalimetry, acidimetry, the determination of metals, iodimetry, etc.; a course covering the principles and practice of the subject so far as possible, and involving about nine hours of laboratory work, in addition to one or more class exercises, each week. Senior course, second term, 3 hours a week. Prerequisite courses: Quantitative Analysis 34 and 41. Required in the Department of Chemistry. Professor Cornwall.
43. **Organic Chemistry.** Continuation of Organic Chemistry 32, devoted in great part to a discussion of the cyclic compounds. Lectures and recitations. Senior course, first term, 3 hours a week. Prerequisite courses: General Chemistry, Qualitative Analysis,

- and Organic Chemistry 32. Required in the Department of Chemistry. Professor Neher.
44. Physical Chemistry. Lectures with frequent recitations, both oral and written. Walker: *Introduction to Physical Chemistry*. Senior course, second term, 3 hours a week. Prerequisite courses: General Physics and General Chemistry. Required in the Department of Chemistry. Professor Hulett.
45. Organic Preparations. The preparation and experimental study of typical carbon compounds, both acyclic and cyclic. About 10 hours of laboratory work each week in addition to class exercises. Senior course, open only to students taking Organic Chemistry 43, first term, 3 hours a week. Prerequisite courses: General Chemistry, Qualitative Analysis, Organic Chemistry 32, and Quantitative Analysis 34. Professor Neher.
46. Laboratory work in Physical Chemistry. Molecular weight determination by vapor density, freezing point, and boiling point methods; study of solutions, solubility, conductivity, etc. Methods for determining heat of neutralization and velocities of reactions. About nine hours of laboratory work each week in addition to class exercises. Ostwald-Luther: *Physiko-Chemische Messungen*. Senior course, open only to students taking Physical Chemistry 44, second term, 3 hours a week. Prerequisite courses: General Chemistry, Qualitative Analysis, Quantitative Analysis 34, and Organic Chemistry 32. Required in the Department of Chemistry. Professor Hulett, with Dr. Duschak.

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For graduate courses in Chemistry, see Department of the Graduate School, p. 236.

## X. DEPARTMENT OF GEOLOGY

PROFESSORS CORNWALL, SCOTT, PHILLIPS, SMYTH, FARR,  
AND VAN INGEN; DR. SINCLAIR AND MR. PARDOE

31. Geology. Beginners' course, covering the subject in outline and designed both for those who intend to pursue the subject further, and for those who desire merely to obtain a general knowledge of the science. Scott: *Introduction to Geology*. Reference book: Chamberlin and Salisbury: *Geology*. Junior course, first term, 3 hours a week. General Chemistry and General Biology are required of Departmental students only. Prerequisite to the Geology of Senior year. Professor Scott.
32. Structural Geology. Study of the common rocks and their most important structural relations. Lectures and laboratory work. Field work required of all departmental students. Geikie: *Structural and Field Geology*. Junior course, second term, 3 hours a week. Prerequisite courses: Geology 31, 33. Prerequisite to the Geology courses of Senior year. Dr. Sinclair.
33. Mineralogy. Lectures, recitations, and practice in theoretical, descriptive, and determinative mineralogy; a study especially of rock-forming minerals and the commoner minerals in general. Junior course, first term, 3 hours a week. Prerequisite course: General Chemistry. Prerequisite to advanced Geology. Professor Cornwall.
34. Mineralogy. Lectures and laboratory work on crystallography and the optical properties of crystals. E. S. Dana: *Textbook of Mineralogy*. Junior course, second term, 3 hours a week. Prerequisite course: Mineralogy 33. Professor Phillips.
- 41, 42. Historical Geology. Advanced course consist-



- ing of lectures, laboratory exercises, and field work. Scott: *Introduction to Geology*; Chamberlin and Salisbury: *Geology, Volumes II and III*. Senior course, both terms, 3 hours a week. Prerequisite courses: Geology 32, and Biology 31, 32. Professors Scott and van Ingen.
43. Structural and Dynamic Geology. Advanced course involving detailed study of the structural features of the earth's crust. Lectures, laboratory and field work. Geikie: *Structural and Field Geology*. Senior course, first term, 3 hours a week. Prerequisite courses: Geology 32. Professor Smyth and Dr. Sinclair.
  44. Economic Geology. The principles controlling the circulation of mineral matter in the earth's crust, and its concentration into workable deposits. Ries: *Economic Geology of the United States*; Kemp: *Ore Deposits of the United States*. Lectures and laboratory work. Prerequisite course: Geology 43. Senior course, second term, 3 hours a week. Professor Smyth.
  45. Invertebrate Palæontology. Lectures and laboratory work on fossil invertebrates. Zittel-Eastman: *Text-book of Paleontology, Vol. I*. Senior course, first term, 3 hours a week. Prerequisite courses: Geology 31 and Biology 31, 32. Required cognate: Geology 41. Professor van Ingen.
  46. Invertebrate Palæontology. Study of the constitution and changes of fossil faunas. Lectures and laboratory work. Senior course, second term, 3 hours a week. Prerequisite course: Geology 45. Professor van Ingen.
  47. Mineralogy. Lectures and laboratory work on the microscopical characters of the rock-forming minerals. Luquer: *Minerals in Rock Sections*. Senior

course, first term, 3 hours a week. Prerequisite course: Mineralogy 34. Professor Phillips.

48. Petrology. The study of rocks, their mineralogical and chemical composition, structure, mode of occurrence, origin, and classification. Lectures and laboratory work. Harker: *Petrology for Students*. Senior course, second term, 3 hours a week. Prerequisite courses; Mineralogy 47 and Geology 43. Professor Smyth.

Summer Course in Field Geology. Juniors who contemplate electing the major part of their Senior studies in the Department of Geology are strongly advised to take part in the optional field work which will be offered during a portion of each summer vacation.

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For graduate courses in Geology, see Department of the Graduate School, p. 237.

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## XI. DEPARTMENT OF BIOLOGY

PROFESSORS SCOTT, RANKIN, MC CLURE, CONKLIN, DAHLGREN, AND FARR; MR. SILVESTER AND DR. CRAMPTON

- 31, 32. General Biology. Lectures, laboratory work, and recitations. An introduction to the fundamental properties of living things, their functions, structures, classification, habits, life-histories, and evolution. Selected forms are studied in the laboratory as illustrating the chief principles and generalizations of biology. Reference books: Sedgwick and Wilson, Parker, Jordan, and Kellogg. Junior course, both terms, 3 hours a week. Prerequisite to the subsequent courses in Biology. Professor Conklin.
33. Structural Botany. Lectures and laboratory work on the structure and functions of plants, with

- exercises on the analysis and classification of the Phanerogams. Bergen and Davis: *Principles of Botany*; Curtis: *Nature and Development of Plants*. Junior course, first term, 3 hours a week. Professor Rankin.
34. Cryptogamic Botany. Studies of the development of the plant kingdom, with especial reference to the structure and life history of the Cryptogams. Bergen and Davis: *Principles of Botany*; Caldwell: *Plant Morphology*. Junior course, second term, 3 hours a week. Professor Rankin.
41. Comparative Anatomy of Vertebrates. Lecture and laboratory course. Lectures on the comparative anatomy of the organ systems of vertebrates, and dissection of the following forms: *Amphioxus*, the dog-fish, the pigeon, and a mammal. Marshall and Hurst: *Practical Zoölogy*. Reference books: Kingsley: *Vertebrate Zoölogy*; Wiedersheim: *Vergleichende Anatomie der Wirbelthiere*. Senior course, first term, 3 hours a week. Prerequisite courses: Junior courses in Biology. Professor McClure and Mr. Silvester.
42. Vertebrate Embryology. Lecture and laboratory course. A comparative study of the development of vertebrates. Hertwig: *Textbook of Embryology*; Minot; Marshall. Senior course, second term, 3 hours a week. Professor McClure and Mr. Silvester.
43. Histology. A study of protoplasm, the cell, and the tissue as they underlie animal and vegetable life. Required text-book: Dahlgren and Kepner: *Principles of Animal Histology*. Reference books: F. T. Lewis: *Stohr's Text Book of Histology*; Schnider: *Histologie der Tiere*; Wilson: *The Cell in Development and Inheritance*. Senior course, first term, 3 hours a week. Professor Dahlgren.

44. Vertebrate Palæontology. Lectures and laboratory work on fossil vertebrates. Smith-Woodward: *Vertebrate Paleontology*; Zittel: *Handbuch der Paleontologie*. Senior course, second term, 3 hours a week. Prerequisite courses: Biology 31, 32, and Osteology. Professors Scott and Farr.
45. Comparative Osteology. Ontogeny and comparative structure of the skeleton of the different classes. Exercises in descriptive work. Each student shall prepare a thesis on a skeleton specially assigned for his study. Flower: *Osteology of the Mammalia*; Reynolds: *The Vertebrate Skeleton*. The monographs on the skull, the shoulder-girdle, human anatomy. Senior course, first term, 3 hours a week. Prerequisite course: Junior course in Biology. Professor Farr.
46. Advanced Histology, and Neurology. The comparative Histology of the nervous tissues and neuroglia; an outline of the structure of several important types of nervous systems including the vertebrate type; and work on several other special groups of tissues. Practice in microscopical technic. Thesis. Required text-books: Dahlgren and Kepner: *The Principles of Animal Histology*; J. B. Johnson: *The Nervous System of Vertebrates*. For reference, see books and original articles listed in the outlines of the work. Senior course, second term, 3 hours a week. Professor Dahlgren.

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For graduate courses in Biology, see Department of the Graduate School, p. 237.

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COURSES FALLING UNDER DIVISION D, BUT WHICH  
ARE NOT INCLUDED IN ANY ONE OF THE  
PRECEDING DEPARTMENTS

23. Graphics. Elementary Mechanical Drawing. A beginners' course. Willson: *Theoretical and Practi-*

- cal Graphics*. Elective, open only to B.S. and Litt.B. Sophomores who elect Mathematics at the same time, first term, 3 hours a week. Prerequisite to Graphics 24. Professor F. N. Willson and Mr. McWilliams.
24. Graphics. Curve construction, structure drawing, intersections, etc. Lectures. Willson: *Graphics*. Elective course, open only to B.S. and Litt.B. Sophomores, who have elected both Mathematics 21 and Graphics 23, and who elect Mathematics 22 during the second term. Second term, 3 hours a week. Professor Willson and Mr. McWilliams.
31. Elementary Astronomy. Mainly descriptive, exhibiting the leading facts of astronomy and an elementary explanation of the methods by which they are ascertained. Recitations on text-book, with lectures. Young: *Manual of Astronomy*. Junior course, first term, 3 hours a week. Prerequisite to Senior Astronomy. Professor Russell.
- 32 a. Geodesy. Surveying. A general outline of methods of surveying and their uses. Raymond: *Surveying*. Junior course, second term, 3 hours a week. Professor Harris.
33. Graphics. Descriptive Geometry. A lecture and text-book course on the fundamental problems of the point, line, and plane, followed by their application to developable, double-curved, and warped surfaces, and including trihedrals and spherical projections, practically applied in the solution of a large number of problems on the drawing-board. Willson: *Descriptive Geometry*. Junior course, first term, 3 hours a week. Professor Willson and Mr. McWilliams.
34. Graphical Statics. Review of general principles of force polygons and of funicular polygons. Extensions to complex problems. Illustrations and drill

in the solution of numerous examples drawn from statical and dynamical engineering, involving direct stresses, and flexural, shearing, and torsional stress; also moments of inertia, centers of gravity of irregular figures, and fluctuations of energy of machines. Lectures, aided by *Merriman and Jacoby*, Part II. Reference book: *Eddy*: *New Constructions in Graphical Statics*. Junior course, second term, 3 hours a week. Prerequisite courses: Graphics, Physics. Mr. Havron, under the direction of Professor McMillan.

36. Physical Geography. Morphology of the continents. Guyot: *Physical Geography*; *Earth and Man*; Davis: *Physical Geography*; Tarr: *Elementary Physical Geography*; Mill: *Realm of Nature*. Junior course, second term, 3 hours a week. Professor Libbey.
- 43, 44. Practical Astronomy (elementary course); determination of time, latitude, and azimuth, work with the equatorial on double stars, variable stars, and the sun. Classroom exercises, with the necessary observatory work. Senior course, both terms, 3 hours a week. Professor Russell.
45. Theory of Prime Motors. General relations of the factors of energy and power considered analytically and graphically; reduction of inertia and all resistances to driving point; efficiency; general theory of water motors (rotative); thermal motors:—combustion, calorific powers of fuels, theory of chimney-draft, efficiency of generator. Rankine: *Steam Engine and Other Motors*. Reference books: Ewing: *The Steam-Engine and Other Heat-Engines*; Ripper: *Steam Engine*; Weisbach: *Hydraulic Motors*. Senior course, first term, 3 hours a week, with laboratory work. Prerequisite courses: Physics, Applied Mechanics (Analytical and Graphical), Chemistry.

Prerequisite to Theory of Prime Motors 46. Professor McMillan and Mr. Havron.

46. Theory of Prime Motors. Recitations and lectures, general equations of thermodynamics, expansion and compression curves of gases and vapors, diagrams of energy—[p. v. and t. e.]; modifying causes of diagrams; compound engines; explosive or combustion engines:—Otto cycle; compression and expansion curves; combustion engines with carburetting; oil-engines. Rankine: *Steam Engine and Other Motors*. Reference books: Ewing; Ripper; Clerk: *Gas Engine*. Senior course, second term, 3 hours a week, with laboratory work. Prerequisite courses: Physics, Applied Mechanics (Analytical and Graphical), Chemistry. Professor McMillan and Mr. Havron.

## DEPARTMENT OF CIVIL ENGINEERING

PROFESSORS MC MILLAN, WILLSON, SMITH, AND HARRIS; MR.  
MC WILLIAMS, MR. CORY, MR. HAVRON, AND MR. CORNWELL

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## THE FRESHMAN YEAR

- 11, 12, *a*. [English 11, 12, *a*.] Selected authors for special study and for general reading. The principles of composition and rhetoric will be derived therefrom. Frequent reports on assigned reading. Required of all C.E. Freshmen, both terms, 2 hours a week. Professor Covington, assisted by the English Preceptors and Instructors.
- 11, 12, *b*. [English 11, 12, *b*.] To Freshmen who enter the Cliosophic or the American Whig Society there is offered, as a substitute for 11, 12, *a*, an elective course in Public Speaking and Debate. Required of all C.E. Freshmen, both terms, 2 hours a week. Professor Covington for the Cliosophic Society, and Professor Craig for the American Whig Society.
- 13, 14. [Physics 11, 12.] Elementary Experimental Physics. Beginners' course in physics, including classroom and laboratory work. Millikan and Gale: *First Course in Physics*. Required of all C.E. Freshmen, both terms, 4 hours a week. For this course a fee of \$5 is charged, and a deposit on apparatus of \$5 is required. Professors McClenahan and Cooke, Mr. Davisson, Mr. Thomas, Mr. Pomeroy, and Mr. Hulbirt.
- 15, 16. [Mathematics 15, 16.] Selected Portions of Algebra and Elementary Theory of Equations. Theory of the fundamental operations and of the solution



of conditional equations. Methods of undetermined coefficients. The division transformation, synthetic division, the remainder theorem. Highest common factor. Partial fractions. Graphs of equations of the first and second degree in two variables. Theory of Equations. Determinants. Fine: *College Algebra*. Required of all C.E. Freshmen, half of first and half of second term, 4 hours a week. Professors Gillespie, Hun, MacInnes, and Stromquist; Dr. Swift, Mr. Mathews, and Mr. Mitchell.

17. [Mathematics 11.] Plane Trigonometry. Definitions of the six trigonometric functions as ratios, relations between these six functions, values of the functions for  $0^\circ$ ,  $30^\circ$ ,  $45^\circ$ ,  $60^\circ$ ,  $90^\circ$ ,  $120^\circ$ ,  $135^\circ$ , etc., etc., formulas for the sine, cosine, and tangent of the sum or difference of two angles for all angles, formulas for the sum or difference of two sines or two cosines, expressions for the functions of double and half angles, trigonometric identities and equations, theory of logarithms and the use of trigonometric tables, and the solution of right and oblique plane triangles. The circular measure of angles. The inverse trigonometric functions. Required of all C.E. Freshmen who do not take 27, Spherical Trigonometry; half of first term, 4 hours a week. Professors Gillespie, Hun, MacInnes, and Stromquist; Dr. Swift, Dr. Irwin, Mr. MacNeish, Mr. Mathews, and Mr. Mitchell.
19. [Mathematics 13.] Spherical Trigonometry and Applications of Trigonometry. Required of all C.E. Freshmen who do not take 17, Plane Trigonometry; half of first term, 4 hours a week. Professors Gillespie, Hun, MacInnes, and Stromquist; Dr. Swift, Dr. Irwin, Mr. MacNeish, Mr. Mathews, and Mr. Mitchell.

20. [Mathematics 18.] Conic Sections, treated from the Cartesian standpoint. Required of all C.E. Freshmen, half of second term, 4 hours a week. Professors Fine, Thompson, Gillespie, Hun, MacInnes, and Stromquist; Dr. Swift, Dr. Irwin, Mr. MacNeish, Mr. Mathews, and Mr. Mitchell.
- 21, 22. [Chemistry 11, 12.] General Inorganic Chemistry. Experimental lectures and recitations on the elements and their compounds. Newell: *Descriptive Chemistry*. Required of all C.E. Freshmen, both terms, 3 hours a week. Professor McCay, assisted by Dr. Smith.
23. Graphics. Elementary technical drawing. Line and brush work, conventional representations, lettering, trochoidal curves, oblique and orthographic projections, working drawings, and tracing. Willson: *Theoretical and Practical Graphics*. Required of all C.E. Freshmen, first term, 2 hours a week. Professor Willson and Mr. McWilliams.
- 25, 26. Geodesy. Land surveying. Theory of chain and compass surveying. Surveys of public lands. Leveling. Lectures and recitations. Staley-Gillespie: *Land-Surveying*. Required of all C.E. Freshmen, first term, 1 hour a week; second term, 3 hours a week. Professor Harris, Mr. Cory, and Mr. Cornwell.

## THE SOPHOMORE YEAR

- 35, 36. [Physics 23, 24.] General Physics. Lectures based on experimental demonstrations. Frequent written recitations. Ames: *General Physics*. Required of all C.E. Sophomores, both terms, 3 hours a week. Professor Loomis.
- 37, 38. [Mathematics 21, 22.] Conic Sections and Calculus. Required of all C.E. Sophomores, both terms,

- 3 hours a week. Professors Thompson, Veblen, Hun, MacInnes, and Stromquist; Dr. Swift.
39. [Mathematics 23.] Geometry, a course supplementary to course 28. [Mathematics 18.] Required of all C.E. Sophomores, first term, 2 hours a week. Professors Thompson, MacInnes, and Stromquist.
  40. [Mathematics 24.] Analytical Mechanics. Introductory course. Required of all C.E. Sophomores, second term, 2 hours a week. Professors Eisenhart, Gillespie, Veblen, and Hun.
  43. Mineralogy. Determinative mineralogy (blowpipe analysis), preceded by a short course of lectures, including elements of crystallography. Cornwall: *Manual of Blowpipe Analysis and Determinative Mineralogy*. Required of all C.E. Sophomores, first term, 3 hours a week. Professor Phillips.
  44. Geology. Elementary course. General outline of the subject, including dynamical, structural, and historical geology. Scott: *Introduction to Geology*. Reference book: Chamberlin and Salisbury: *Geology*. Required of all C.E. Sophomores, second term, 3 hours a week. Professor Farr.
  45. Graphics. Elementary descriptive geometry, intersections, development, and model making. Required of all C.E. Sophomores, first term, 3 hours a week. Professor Willson and Mr. McWilliams.
  46. Graphics. (a) Structure drawing. Detail and assembly drawings of bridges, etc., from blue prints or actual measurement. Required of all C.E. Sophomores, second term, 2 hours a week. (b) Graphic solution of kinematic and projective problems, higher plane curves, cams, crystal projection, and mechanisms. Required of all C.E. Sophomores, second term, 1 hour a week. Professor Willson and Mr. McWilliams.

47. Geodesy. Line and angle measurements, farm surveying, field and office work, and platting of field notes. Topographical drawing in pen work and colors, lettering, map of farm survey. McMillan-Smith: *Topographical Drawing*. Required of all C.E. Sophomores, first term, 3 hours a week. Professor Harris, Mr. Cory, and Mr. Cornwell.
48. Geodesy. Structure and adjustment of engineer's field instruments, leveling, contouring, triangulation, and transit work. Lectures, recitations, field and office work. Staley-Gillespie: *Land Surveying*. Required of all C.E. Sophomores, second term, 3 hours a week. Professor Harris, Mr. Cory, and Mr. Cornwell.

#### THE JUNIOR YEAR

- 49, 50. [Mathematics 35, 36.] Analytical Mechanics. The general principles of mechanics; the statics and dynamics of particles, rigid bodies, and fluids. Lectures. Required of all C.E. Juniors, both terms, 3 hours a week. Professors Eisenhart and Gillespie.
51. General Astronomy. Elementary astronomy for engineers. Lectures and recitations from text-book, with special reference to preparation for course 56. Young: *Manual of Astronomy*. Required of all C.E. Juniors, first term, 3 hours a week. Professor Dugan.
52. Practical Astronomy. Détermination of time, latitude, and azimuth. Practice with the transit instrument, sextant, and theodolite. Détermination of latitude with the zenith telescope. Required of all C.E. Juniors, second term, 2 hours a week. Professors Dugan and Russell.
53. Materials of Construction. Descriptive course. Required of all C.E. Juniors, first term, 2 hours a week. Professor Smith.

54. Mechanics of Materials. Strength and elasticity of materials and applications to beams, columns, and shafts. Required of all C.E. Juniors, second term, 4 hours a week. Professor Smith.
55. Geodesy. Town, mine, and hydrographic surveying. Barometric leveling, surveying with the stadia and gradienter. Solar transit. Lectures, recitations, and field work. Raymond: *Surveying*; Staley-Gillespie: *Land Surveying*. Required of all C.E. Juniors, first term, 4 hours a week. Professor Harris, Mr. Cory, and Mr. Cornwell.
56. Geodesy. Railroad engineering. Lectures, recitations, and field work. Searles: *Field Engineering*. Required of all C.E. Juniors, second term, 5 hours a week. Professor Harris, Mr. Cory, and Mr. Cornwell.
57. Graphics. Advanced descriptive geometry, pure, and as applied to developable, double-curved, and warped surfaces, spherical projections, and trihedrals. Lectures, text-book work, and practical drafting. Willson: *Descriptive Geometry*. Required of all C.E. Juniors, first term, 2 hours a week. Professor Willson and Mr. McWilliams.
58. Graphics. Shadows, perspective, and valve-motion. Lectures, illustrated with lantern slides, text-book work, and practical problems on the drawing board. Willson: *Shadows and Perspective*; Halsey; *Slide Valve Gears*. Required of all C.E. Juniors, second term, 3 hours a week. Professor Willson and Mr. McWilliams.
59. Graphical Statics. Review of the general principles of force polygons and of funicular polygons. Applications to the solution of direct, flexural, shearing, and torsional stresses, determination of centers of gravity and moments of inertia. General and special applications to girders and framed structures,

non-continuous and continuous. Merriman and Jacoby: *Part II*. Reference book: Eddy: *New Constructions in Graphical Statics*. Required of all C.E. Juniors, first term, 3 hours a week. Mr. Havron, under the direction of Professor McMillan.

Geodesy. Summer field practice. Extended field operations and office work, occupying the two weeks following the close of the second term of Junior year. Professor Harris, Mr. Cory, and Mr. Cornwell.

#### THE SENIOR YEAR

61. Framed Structures. Analytical and graphical determination of stresses in girders and simple trusses, including the design of details. The theory of the suspension bridge and of the swing bridge. Johnson: *Framed Structures*. References: Blue Prints of Shop Drawings. Required of all C.E. Seniors, first term, 5 hours a week. Professor McMillan and Mr. Havron.
62. Framed Structures. The theory of cantilever bridges, of arched bridges, and of steel-frame buildings. Johnson: *Framed Structures*. Required of all C.E. Seniors, second term, 3 hours a week. Professor McMillan and Mr. Havron.
63. Theory of Prime Motors. General relations of the factors of energy and power considered analytically and graphically: reduction of inertia and all resistances to driving point; efficiency; general theory of water motors (rotative); thermal motors:—combustion, calorific powers of fuels, theory of chimney-draft, efficiency of generator. Rankine: *Steam Engine and Other Motors*. Reference books: Ewing: *The Steam-Engine and Other Engines*; Ripper: *Steam Engine*; Weisbach: *Hydraulic Motors*. Required of

- all C.E. Seniors, first term, 3 hours a week, with laboratory work. Prerequisite courses: Physics, Applied Mechanics (analytical and graphical), Chemistry. Prerequisite to Theory of Prime Motors 64. Professor McMillan and Mr. Havron.
64. Theory of Prime Motors. Recitations and lectures. general equations of thermodynamics; expansion and compression curves of gases and vapors, diagrams of energy—[p.v. and t.e.]; modifying causes of diagrams; compound engines; explosive or combustion engines:—Otto cycle; compression and expansion curves; compression curves of gases and vapors, diagrams of combustion engines with carburetting; oil-engines. Rankine: *Steam Engines and Other Motors*. Reference books: Ewing; Ripper; Clerk: *Gas Engine*. Required of all C.E. Seniors, second term, 3 hours a week. Prerequisite courses: Physics, Applied Mechanics (analytical and graphical), Chemistry. Professor McMillan and Mr. Havron.
65. Hydraulics. Theory. Required of all C.E. Seniors, first term, 2 hours a week. Professor Smith or Mr. Havron.
66. Water Works. Outline of the planning and construction of systems of water supply. Lectures. Reference book: Turneaure and Russell: *Public Water Supplies*. Required of all C.E. Seniors, second term, 2 hours a week. Professor Smith.
67. Graphics. Stereotomy. Descriptive geometry applied to the solution of such problems in stone cutting as are likely to arise in railroad or architectural construction. A lecture and drafting-room course. Required of all C.E. Seniors, first term, 2 hours a week. Professor Willson.
68. Sewerage and Drainage. The sewerage and drainage of buildings and towns, including sewage purification

- and disposal. Folwell: *Sewerage*. Required of all C.E. Seniors, second term, 2 hours a week. Professor McMillan.
69. Geodesy. Railroad engineering: preliminary and location surveys of routes, staking out for construction, and estimating cost. Field and office work. Searles: *Field Engineering*. Reference book: Wellington: *Railway Location*. Required of all C.E. Seniors, first term, 3 hours a week. Professor Harris.
70. Roads. Traction on different surfaces. Considerations affecting the value of a road improvement; the location of country roads; road construction and maintenance. Pavements, materials and qualities, tests of materials. Spalding. Required of all C.E. Seniors, second term, 2 hours a week. Professor Harris.
72. Masonry Structures. The theory of the stability of masonry structures. Required of all C.E. Seniors, second term, 2 hours a week. Professor Smith and Mr. Havron.
74. Methods of Construction. Study of the methods employed in the building of engineering structures. Foundations. Baker: *Masonry Construction*. Required of all C.E. Seniors, second term, 2 hours a week. Professor Smith and Mr. Havron.
75. Laboratory Work in Civil Engineering. The erection of structures, the gauging of water, the testing of motors and of materials of construction. Required of all C.E. Seniors, first term, 2 hours a week. Professor Smith and Mr. Havron.
76. Laboratory Work in Civil Engineering. The erection of structures, and the testing of motors. Required of all C.E. Seniors, second term, 1 hour a week. Professor McMillan and Mr. Havron.



## SCHOOL OF ELECTRICAL ENGINEERING

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### FACULTY

MALCOLM MACLAREN, E.E., *Professor of Electrical Engineering.*

HOWARD MCCLENAHAN, E.E., M.S., *Professor of Physics.*

GEORGE AUGUSTUS HULETT, PH.D., *Assistant Professor of Physical Chemistry.*

PHILLIPS THOMAS, B.S., *Instructor in Electrical Engineering and Physics.*

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The course in Electrical Engineering is designed to furnish instruction in the theory of electricity and in its application in the arts and industries. The special course of study in electricity occupies two years of graduate work.

### REQUIREMENTS FOR ADMISSION

I. Graduates of the University, either in the Academic Department or in the John C. Green School of Science, who have taken satisfactory courses in French and German and in mathematics, including calculus and differential equations, will be admitted to the course in Electrical Engineering without examination.

II. Applicants who are graduates of other institutions must satisfy the professors in charge that they have sufficient knowledge of mathematics, including calculus and differential equations, of physics and chemistry, and of French and German, to enable them to pursue the course with profit.

III. Applicants who are not graduates of any institution may be admitted to the course if they show their fitness

for it on examination in mathematics, including calculus, differential equations, analytical mechanics, mechanical drawing and descriptive geometry, general and analytical chemistry, physics, French and German.

IV. Students not candidates for a degree may be received by special arrangement with the professors in charge.

#### COURSE OF STUDY

*First Year.*—The Mathematical Theory of Electricity. Mascart et Joubert: *Lecons sur l'Electricité et le Magnetisme*; with references to Faraday, Maxwell, Hertz, et al.

Theory and Design of Direct Current Machinery. Thompson: *Design of Dynamos*. In this course, each student is required to execute designs of magnetic circuits and of various types of armature and field windings, and, finally, a complete design, with general and detailed drawings, for a direct current generator.

Electrical Measurements. Fleming: *Handbook for the Electrical Laboratory and Testing Room*; Ewing: *Magnetic Induction in Iron and Other Metals*. Two days a week are left free for elementary electrical and magnetic measurements, with reference to Stewart and Gee, Kohlrausch, Gray, Ewing, et al.

Strength of Materials, four hours a week for one half the year; and Theory of Prime Motors, three hours a week throughout the year, may be taken with the classes in the Department of Civil Engineering by those deficient in these subjects.

*Second Year.*—Railway Engineering with Special Reference to Heavy Electric Traction. Lecture course. Reference books: Ashe and Keily: *Electric Railways*; Parshull and Hobart: *Railway Engineering*.

Theory of Alternating Currents and Design of Alternating Current Machinery. Fleming: *The Alternating Current Transformer*; Thompson: *Polyphase Electric Currents*; with references to Ferraris, Steinmetz, et al. This course covers the mathematical theory of alternating currents together with the design of alternating current machinery. Each student is required to make the calculations and preliminary drawings for the design of an alternating current generator, of a transformer and of an induction motor.

Electro-chemistry. Lectures on the principles and methods of electro-chemistry and metallurgy, supplemented by experimental work in the chemical laboratory.

Collateral lectures on the technical applications of electricity in telegraphy, telephony, lighting, transmission of power, etc.

Two and a half days a week for half a year are devoted to the testing of dynamos, motors, transformers, lamps, boilers and engines. A complete plant test, for an all day run, is carried out each year by the students of the Department.

#### DEGREE

On completion of this course the student is entitled to apply for the degree of Electrical Engineer. With his application he must present a thesis on some subject connected with electrical science.

## WEEKLY SCHEDULES

	MONDAY	TUESDAY	WEDNESDAY
8	Math VII I M60 Math VIII A D16 Math XIII H M66 Math XV Sw D17 Math XVI Mc M62	Math VII I M60 Math VIII A D16 Math XIII H M66 Math XV Sw D17 Math XVI Mc M62	Math IX A D16 Math X Mi D19 Math XI Ma D29 Math XII I M60 Math XIII H M66 Math XV Sw D17 Math XVI Mc M62
9	Math I Mc M62 Math II H M66 Math III Sw D17 Math V I M60 Math VI A D16 Math XIV St M64	Math I Mc M62 Math II H M66 Math III Sw D17 Math V I M60 Math VI A D16 Math XIV St M64	Math I Mc M62 Math II H M66 Math III Sw D17 Math IV V D29 Math V I M60 Math VI A D16 Math XIV St M64 Math XVII G D28
10	A Latin I Wct M20 A Latin III N M4 A Latin V A Latin VII O D12 A Greek VI S Physics I Mc Ph 301	A Latin I Wct M20 A Latin III A Latin V M M30 A Latin VII O D12 A Greek II S Physics I Mc Ph 301	A Latin I A Latin III N M4 A Latin V M M30 A Latin VII O D12 A Greek IV S Physics I Mc Ph 301
11	A Latin II L M2 A Latin IV Wct M20 A Latin VI A Greek I C E Chemistry Mc Ph 301 L Physics II	A Latin II M M30 A Latin IV A Latin VI Wct M20 A Greek I S M24 A Greek V C E Chemistry Mc Ph 301 L Physics II	A Latin II M M30 A Latin IV L M2 A Latin VI S M24 A Greek I A Greek III C E Chemistry Mc Ph 301 L Physics II
12	A Greek III G M30 A Greek V H D26 L Latin XI L Latin XIII A D12 L Latin XV J D13	A Greek III G M30 L Latin XI K M32 L Latin XIII L Latin XV J D13	A Greek V H D26 L Latin XI K M32 L Latin XIII A D12 L Latin XV J D13
1	A Greek II E M4 A Greek IV F M26 A Greek VII J D13 L Latin XII O M3 L Latin XIV S10 E Graphics	A Greek IV F M26 A Greek VI S M24 A Greek VII J D13 L Latin XII A D12 L Latin XIV S10 E Graphics	A Greek II E M4 A Greek VI S M24 A Greek VII J D13 L Latin XII A D12 L Latin XIV O M30 E Graphics S10
2	E Graphics S10	E Graphics S10	E Graphics S10

A—For candidates for A. B. S—For candidates for C. E., B. S., or Litt. B.

FRESHMAN FIRST TERM SCHEDULE, 1908-1909 195

	THURSDAY	FRIDAY	SATURDAY
8	Math ix A D16 Math x M1 D19 Math xi Ma D29 Math xii I M60 Math xiii H M66 Math xiv St M64 Math xv Sw D17 Math xvi Mc M62	Math ix A D16 Math x M1 D19 Math xi Ma D29 Math xii I M60	Math ix A D16 Math x M1 D19 Math xi Ma D29 Math xii I M60
9	Math i Mc M62 Math ii H M66 Math iii Sw D17 Math iv V D29 Math v I M60 Math vi A D16 Math xvii G D28	Math iv V D29 Math vii I M60 Math viii A D16 Math xvii G D28	Math iv V D29 Math vii I M60 Math viii A D16 Math xvii G D28
10	A Latin i Wct M 20 A Latin iii N M4 A Latin v M M30 A Latin vii M M30 S French ix D13 S French xi D14 S German v M32 S German vii D6	A English i M20 A English iii M4 A English v M30 A English vii D7 S French ix D13 S French xi D14 S German v M32 S German vii D6	A English i M20 A English iii M4 A English v M30 A English vii D7 S French ix D13 S French xi D14 S German v M32 S German vii D6
11	A Latin ii M M30 A Latin iv L M2 A Latin vi Wct M20 A Greek i S M24 S French x D13 S French xii D14 S German vi M32 S German viii D6	A English ii M20 A English iv M2 A English vi M30 A English viii D7 S French x D13 S French xii D14 S German vi M32 S German viii D6	A English ii M20 A English iv M2 A English vi M30 A English viii D7 S French x D13 S French xii D14 S German vi M32 S German viii D6
12	A Greek iii G M30 A Greek v H D26 L Latin xi K M32 L Latin xiii A D12 L Latin xv S Mc Ph 301 S Physics A	A French xv D12 A French xvii D13 A German xv M32 A German xvii D26 S English xi M24 S English xxi M2 S English xv M30 S English xvii M4	A French xv D12 A French xvii D13 A German xv M32 A German xvii D26 S English xi M24 S English xxi M2 S English xv M30 S English xvii M4
1	A Greek ii E M4 A Greek iv F M26 A Greek vi S M24 A Greek vii A D12 L Latin xii O M30 L Latin xiv S Mc Ph 301 S Physics B	A French xvi D13 A French xviii D14 A German xvi M32 A German xviii D26 S English xii M24 S English xiv M2 S English xvi M30 S English xviii M4	A French xvi D13 A French xviii D14 A German xvi M32 A German xviii D26 S English xii M24 S English xiv M2 S English xvi M30 S English xviii M4
2			

E—For candidates for C. E.

L—For candidates for B. S. or Litt. B.

	MONDAY	TUESDAY	WEDNESDAY
8	Conics IX Mo M65 Conics XI Sw D6 Conics XIII H D16 Conics XIV St D18 Conics XVII T S7	Conics IX Mo M65 Conics XI Sw D6 Conics XIII H D16 Conics XIV St D18 Conics XVI Y M67 Algebra XVII Mc D28 Conics Q T S7	Conics VIII Mo M65 Conics x Sw D6 Conics XII H D16 Algebra XIV St D18 Algebra XVI Y M67 Algebra XVII Mc D28 Conics Q T S7
9	Conics I F M62 Conics II T S7 Conics III H D16 Conics IV Mc D28 Conics V St D18 Conics VI Sw D6 Conics VII Mo M65 Conics XVI Y M67	Conics I F M62 Algebra II Y M67 Conics B T S7 Conics III H D16 Conics IV Mc D28 Conics V St D18 Conics VI Sw D6 Conics VII Mo M65 Conics XV G M64	Algebra I G M64 Conics A F M62 Algebra II Y M67 Conics B T S7 Algebra III H D16 Algebra IV Mc D28 Algebra V St D18 Algebra VI Sw D6 Algebra VII Mo M65 Algebra XV Y D29 Conics O G M64
10	A Latin I N M4 A Latin III S M30 A Latin V A Latin VI S Physics I S23 S French I D7 S French III D14 S German I D26	A Latin I Wc M20 A Latin III S M30 A Latin V A Greek II S23 S Physics I D7 S French I D14 S German I D26	A Latin I Wc M20 A Latin III N M4 A Latin V A Greek IV S23 S Physics I D7 S French I D14 S German I D26
11	A Latin II O M2 A Latin IV R M20 A Greek VI A Greek III E Chemistry C L Physics S23 L French II D7 L German II D26	A Latin II S M30 A Latin IV R M20 A Greek VI A Greek V C E Chemistry L Physics S23 L French II D7 L German II D26	A Latin II S M30 A Latin IV O M2 A Greek VI A Greek I C E Chemistry L Physics S23 L French II D7 L German II D26
12	A Greek I R M20 A Greek V E M24 L Latin XI K M32 L Latin XIII D14 L Latin XV S31 E Geodesy I	A Greek I R M20 A Greek III S M30 L Latin XI A D12 L Latin XIII D14 L Latin XV S31 E Geodesy II	A Greek III S M30 A Greek V E M24 L Latin XI A D12 L Latin XIII K M32 E Geodesy III S31
1	A Greek II C M4 A Greek IV I M24 L Latin XII G M32 L Latin XIV S31 E Geodesy IV	A Greek IV I M24 A Latin VI F M26 L Latin XII J D13 L Latin XIV S31 E Geodesy V	A Greek II C M4 A Latin VI F M26 L Latin XII J D13 L Latin XIV G M32 E Geodesy VI S31
2			

A—For candidates for A. B.

S—For candidates for C.E., B. S., or Litt. B.

# FRESHMAN SECOND TERM SCHEDULE, 1907-1908 197

	THURSDAY	FRIDAY	SATURDAY
8	Algebra I G M64 Conics VIII Mo M63 Conics x Sw D6 Conics XII H D16 Algebra XIV St D18 Conics O G M64 Conics XVII T S7	Algebra VIII Mo M60 Algebra x Sw D6 Algebra XII H D16 Conics xv G M64 Conics Q T S7	Algebra VIII Mo M60 Algebra x Sw D6 Algebra XII H D16 Conics Q T S7 E Geodesy S25
9	Conics A F M6a Conics II T S7 Algebra III H D16 Algebra IV Mc D28 Algebra v St D18 Algebra VI Sw D6 Algebra VII Mo M60 Algebra xv V D29 Algebra XVI Y M67	Conics B T S7 Algebra ix Mo M60 Algebra XI Sw D6 Algebra XIII H D16	Conics B T S7 Algebra ix Mo M60 Algebra XI Sw D6 Algebra XIII H D16
10	A Latin I Wc M20 A Latin III N M4 A Latin v S M30 A Greek VI R M24  E French v M2 S French VII D12 S French IX D13 S French XI D14 S German v M32 S German VII D6 E German IX M44	A English I M20 A English III M4 A English v M30 A English VII M24 A English IX D28 E French v M2 S French VII D12 S French IX D13 S French XI D14 S German v M32 S German VII D6 E German IX M44	A English I M20 A English III M4 A English v M30 A English VII M24 A English IX D28 E French v M2 S French VII D12 S French IX D13 S French XI D14 S German v M32 S German VII D6 E German IX M44
11	A Latin II S M30 A Latin IV O M2 A Greek I R M20  S French VIII D12 S French x D13 S French XII D14 S German VI M32 S German VIII D6 E German x M44	A English II M20 A English IV M2 A English VI M30 A English VIII D7 A English x D28 S French VIII D12 S French x D13 S French XII D14 S German VI M32 S German VIII D6 E German x M44	A English II M20 A English IV M2 A English VI M30 A English VIII D7 A English IX D28 S French VIII D12 S French x D13 S French XII D14 S German VI M32 S German VIII D6 E German x M44
12	A Greek III S M30 A Greek v E M24 L Latin XI A D12 L Latin XIII K M32 L Latin xv D14	A French xv D12 A French XVII D13 A German xv M32 A German XVII D26 S English XI M24 S English XIII M2 S English xv M30 S English XVII M4	A French xv D12 A French XVII D13 A German xv M32 A German XVII D26 S English XI M24 S English XIII M2 S English xv M30 S English XVII M4
1	A Greek II C M4 A Greek IV I M2 A Latin VI F M26 L Latin XII J D13 L Latin XIV G M30	A French XVI D13 A French XVIII* D14 A German XVI M32 A German XVIII D26 S English XII M24 S English XIV M2 S English XVI M30 S English XVIII M4	A French XVI D13 A French XVIII* D14 A German XVI M32 A German XVIII D26 S English XII M24 S English XIV M2 S English XVI M30 S English XVIII M4
2			

E—For Candidates for C. E.

L—For candidates for B. S., or Litt. B.

(2-13-08)

	MONDAY	TUESDAY	WEDNESDAY
8	B English I, III, V, VII. IX, XI, XIII, XV, M28 E Graphics	B English I M2 B English III M4 B English V M30 B English VII M32 B English IX D26 B English XI D7 B English XIII D5 B English XV D4 E Graphics	B English I M2 B English III M4 B English V M30 B English VII M32 B English IX D26 B English XI D7 B English XIII D5 B English XV D4 E Graphics
9	B English II, IV, VI, VIII, X, XII, XIV, XVI M28 B Chemistry C E Graphics S10	B English II M26 B English IV M4 B English VI M30 B English VIII M32 B English X M48 B English XII D7 B English XIV D5 B English XVI D4 B Chemistry C E Graphics S10	B English II M26 B English IV M4 B English VI M30 B English VIII M32 B English X M48 B English XII D7 B English XIV D5 B English XVI D4 B Chemistry C E Graphics S10
10	B French I M32 B French III M60 B Beg Fr V D4 B Beg Fr VII D5 B Int French IX D7 B German II M26 B German IV D13 B Beg German VI D6 B Calculus V V D29 E Math II St M64 E Mineralogy III, IV	B French I M32 B French III M60 B Beg Fr V D4 B Beg Fr VII D5 B Int French IX D7 B German II M26 B German IV D13 B Beg Germ VI D6 B Calculus V V D29 E Math II St M64 E Mineralogy III, IV	B French I M32 B French III M60 B Beg Fr V D4 B Beg Fr VII D5 B Int French IX D7 B German II M26 B German IV D13 B Beg Germ VI D6 B Calculus V V D29 E Math II St M64 E Mineralogy III, IV
11	B French II M42 B French IV M60 B Beg Fr VI D4 B German I M48 B German III D13 B Beg Germ V D6 B Int German VII D7 B Hon Math F D19 B Calculus VII Sw D17 E Math I T S7 E Mineralogy III, IV	B French II M32 B French IV M60 B Beg Fr VI D4 B German I M48 B German III D13 B Beg Germ V D6 B Int German VII D7 B Hon Math F D19 B Calculus VII Sw D17 E Math I T S7 E Mineralogy III, IV	B French II M32 B French IV M60 B Beg Fr VI D4 B German I M48 B German III D13 B Beg Germ V D6 B Int German VII D7 B Hon Math F D19 B Calculus VII Sw D17 E Math I T S7 E Mineralogy III, IV
12	A Latin I S M24 B Hon Math F D19 B Calculus VI H M66 E Math III T S7 E Math IV Mc M62	A Latin I S M24 B Hon Math F D19 B Calculus VI H M66 E Math III T S7 E Math IV Mc M62	A Latin I S M24 B Hon Math F D19 B Calculus VI H M66 E Math III T S7 E Math IV Mc M62
1	A Latin II I M2 E Mineralogy I, II	A Latin II I M2 E Mineralogy I, II	A Latin II E Mineralogy I, II
2	E Mineralogy I, II	E Mineralogy I, II	E Mineralogy I, II

A—For candidates for A. B.

B—For candidates for A.B., B. S., or Litt. B.



**SOPHOMORE FIRST TERM SCHEDULE, 1908-1909 199**

	THURSDAY	FRIDAY	SATURDAY
8	A Greek I A Greek III R M26 A Greek V I M30 E Physics I L Ph 301	A Greek I W M24 A Greek III I M30 A Greek V L Ph 301 E Physics I	A Greek I W M24 A Greek III R M26 A Greek V L Ph 301 E Physics I
9	A Greek II W M24 A Greek IV R M24 A Greek VI L Physics II L Ph 301 B Hon Physics Ph 307 E Math I T S7 E Math II St M64	A Greek II W M24 A Greek IV F M30 A Greek VI L Ph 301 L Physics II L Ph 301 B Hon Physics Ph 307 E Math I T S7 E Math II St M64	A Greek II A Greek IV R M26 A Greek VI F M30 L Physics II L Ph 301 B Hon Physics Ph 307 E Math I T S7
10	A Logic I M28, 66 A Logic III D4 A Logic V D5 A Logic VII D16 A Logic IX D17 A Logic XI D26 L Latin I I M24 L Graphics E Math IV Mc M62 E Math III T S7 E Geodesy I, II S 12	A Logic I M28, 66 A Logic III D4 A Logic V D5 A Logic VII D16 A Logic IX D17 A Logic XI D26 L Latin I I M24 L Graphics E Math IV Mc M62 E Math III T S7 E Geodesy I, II S 12	A Logic I-IV M28      L Latin I L Graphics E Math IV Mc M62 E Math III T S7 E Geodesy I, II S 12
11	A Logic II M66 A Logic IV D4 A Logic VI D5 A Logic VIII D16 A Logic X D17 A Logic XII D26 A Logic XIV M64 L Latin II N M60 E Geodesy I, II S 10, 12	A Logic II M66 A Logic IV D4 A Logic VI D5 A Logic VIII D16 A Logic X D17 A Logic XII D26 A Logic XIV M64 L Latin II N M60 E Geodesy I, II S 10, 12	       L Latin II E Geodesy I, II S 10, 12
12	A Physics I T Ph 303 L Logic I M28, 66 L Logic III D4 L Logic V D5 L Logic VII D16 L Logic IX D17 E Geodesy III, IV S 1	A Physics I T Ph 303 L Logic I M28, 66 L Logic III D4 L Logic V D5 L Logic VII D16 L Logic IX D17 E Geodesy III, IV S 1	A Physics I T Ph 303 L Logic I-IX M28, 66      E Geodesy III, IV S 1
1	A Physics II T Ph 303 L Logic II M66 L Logic IV D4 L Logic VI D5 L Logic VIII D16 E Geodesy XII, IV S 1	A Physics II T Ph 303 L Logic II M66 L Logic IV D4 L Logic VI D5 L Logic VIII D16 E Geodesy III, IV S 1	A Physics II T Ph 303      E Geodesy III, IV S 1
2			

E—For candidates for C. E. L—For candidates for B. S. or Litt. B.  
Division in C. E. Mathematics, Mineralogy, Geodesy are posted in the East Entry  
of the School of Science Building. 10-1-08

	MONDAY	TUESDAY	WEDNESDAY
8	B History I D <sub>4</sub> B History III M <sub>4</sub> B History V M <sub>30</sub> B History VII M <sub>32</sub> B History XI M <sub>22</sub> B History XIII M <sub>44</sub> E Graphics S <sub>10</sub>	B History I M <sub>46</sub> , D <sub>4</sub> B History III M <sub>4</sub> B History V M <sub>30</sub> B History VII M <sub>32</sub> B History XI M <sub>22</sub> B History XIII M <sub>44</sub> E Graphics S <sub>14</sub> B Psychology XIII M <sub>64</sub>	B History I D <sub>4</sub> B History III M <sub>4</sub> B History V M <sub>30</sub> B History VII M <sub>32</sub> B History XI M <sub>22</sub> B History XIII M <sub>44</sub> E Graphics S <sub>10</sub> B Psychology XIII M <sub>64</sub>
9	B History II D <sub>19</sub> B History IV M <sub>4</sub> B History VI M <sub>30</sub> B History VIII M <sub>32</sub> B History X D <sub>4</sub> B History XII M <sub>22</sub> B History XIV M <sub>44</sub> B Chemistry C	B History II M <sub>46</sub> , D <sub>19</sub> B History IV M <sub>4</sub> B History VI M <sub>30</sub> B History VIII M <sub>32</sub> B History X D <sub>4</sub> B History XII M <sub>22</sub> B History XIV M <sub>44</sub> B Chemistry C	B History II D <sub>19</sub> B History IV M <sub>4</sub> B History VI M <sub>30</sub> B History VIII M <sub>32</sub> B History X D <sub>4</sub> B History XII M <sub>22</sub> B History XIV M <sub>44</sub> B Chemistry C
10	B French I M <sub>32</sub> B French III M <sub>24</sub> B German II M <sub>26</sub> B German IV D <sub>13</sub> B Beg French v D <sub>4</sub> B Beg French VII D <sub>5</sub> B Beg German VI D <sub>6</sub> B Calculus v Y M <sub>67</sub> B History IX D <sub>19</sub> E Geology N	B French I M <sub>32</sub> B French III M <sub>24</sub> B German II M <sub>26</sub> B German IV D <sub>13</sub> B Beg French v D <sub>4</sub> B Beg French VII D <sub>5</sub> B Beg German VI D <sub>6</sub> B Calculus v Y M <sub>67</sub> B History IX D <sub>19</sub> E Geology N	B French I M <sub>32</sub> B French III M <sub>24</sub> B German II M <sub>26</sub> B German IV D <sub>13</sub> B Beg French v D <sub>4</sub> B Beg French VII D <sub>5</sub> B Beg German VI D <sub>6</sub> B Calculus v Y M <sub>67</sub> B History IX D <sub>19</sub> E Geology N
11	B French II M <sub>32</sub> B French IV D <sub>17</sub> B German I M <sub>48</sub> B German III D <sub>13</sub> B Beg French VI D <sub>4</sub> B Beg German v D <sub>6</sub> B Honors Math F M <sub>62</sub> B Calculus VI B D <sub>18</sub> E Mathematics IV Mc D <sub>28</sub>	B French II M <sub>32</sub> B French IV D <sub>17</sub> B German I M <sub>48</sub> B German III D <sub>13</sub> B Beg French VI D <sub>4</sub> B Beg German v D <sub>6</sub> B Honors Math F M <sub>62</sub> B Calculus VI B D <sub>18</sub> E Mathematics I G M <sub>64</sub> E Mathematics IV Mc D <sub>28</sub>	B French II M <sub>32</sub> B French IV D <sub>17</sub> B German I M <sub>48</sub> B German III D <sub>13</sub> B Beg French VI D <sub>4</sub> B Beg German v D <sub>6</sub> B Honors Math F M <sub>62</sub> B Calculus VI B D <sub>18</sub> E Mathematics I G M <sub>64</sub> E Mathematics IV Mc D <sub>28</sub>
12	B Honors Math F M <sub>62</sub> B Calculus VII B D <sub>18</sub> A Greek I P M <sub>26</sub> E Mathematics II St D <sub>6</sub> E Mathematics III Mc D <sub>28</sub>	B Honors Math F M <sub>62</sub> B Calculus VII B D <sub>18</sub> A Greek I P M <sub>26</sub> E Mathematics II St D <sub>6</sub> E Mathematics III Mc D <sub>28</sub>	B Honors Math F M <sub>62</sub> B Calculus VII B D <sub>18</sub> A Greek I P M <sub>26</sub> E Mathematics II St D <sub>6</sub> E Mathematics III Mc D <sub>28</sub>
1	A Greek II	A Greek II	A Greek II
2			

A—For candidates for A. B.

B—For candidates for A. B., B. S., or Litt. B.

SOPHOMORE SECOND TERM SCHEDULE, 1907-1908 201

	THURSDAY	FRIDAY	SATURDAY
8	A Latin II A Latin III E Physics I L S23	A Lat I, II, III W M28&D8 A Latin IV E Physics I L S23	A Lat I, II, III W M28&D8 E Physics I L S23
9	A Latin V A Latin VI L Physics II L S23 B Hon Physics S10 E Mathematics I G M64 E Mathematics IV E D19	A Latin IV, V, VI W D8 A Latin I L Physics II L S23 B Hon Physics S10 E Mathematics I G M64	A Latin IV, V, VI W D8 L Physics II L S23 B Hon Physics S10 E Mathematics I G M64 E Mathematics IV E D19
10	A Psychology I D7 A Psychology III D4 A Psychology V D5 A Psychology VII D16 A Psychology IX D17 A Psychology XI D26 L Latin I L Graphics S E Mathematics II St D18 E Mathematics III E D19	A Psychology I D7 A Psychology III D4 A Psychology V D5 A Psychology VII D16 A Psychology IX D17 A Psychology XI D26 L Latin I, II W D8 L Graphics S E Mathematics II St D18 E Mathematics III E D19	A Psychology I-IV M28      L Latin I, II W D8 L Graphics S
11	A Psychology II M64 A Psychology IV D4 A Psychology VI D5 A Psychology VIII D16 A Psychology X D17 A Psychology XII D26 A Psychology XIV M64 L Latin II L Graphics S E Geodesy I S12 E Geodesy II S31	A Psychology II M64 A Psychology IV D4 A Psychology VI D5 A Psychology VIII D16 A Psychology X D17 A Psychology XII D26 A Psychology XIV M64 L Graphics S E Geodesy I S12 E Geodesy II S31	       L Graphics S E Geodesy I S12 E Geodesy II S31
12	A Physics I S23 L Psychology I M64 L Psychology III D4 L Psychology V D5 L Psychology VII D16 L Psychology IX D17 E Geodesy III S12 E Geodesy IV S31	A Physics I S23 L Psychology I M64 L Psychology III D4 L Psychology V D5 L Psychology VII D16 L Psychology IX D17 E Geodesy III S12 E Geodesy IV S31	A Physics I S23 L Psychology I-IX D8      E Geodesy III S12 E Geodesy IV S31
13	A Physics II S23 L Psychology II D8 L Psychology IV D4 L Psychology VI D5 L Psychology VIII D16	A Physics II S23 L Psychology II D8 L Psychology IV D4 L Psychology VI D5 L Psychology VIII D16	A Physics II S23
14			

E—For candidates for C. E.

L—For candidates for B. S., or Litt. B.

(2-13-08)



	Qual Analysis, 33 C	Qual Analysis, 33 C	Qual Analysis, 33 C	Latin, 33 Biology, 33 Graphics (Econ D 6 & 7)	Mao Lab S (Econ D 6 & 7)	Latin, 33 Biology, 33 Graphics (Econ D 6 & 7)	Mao Lab S (Econ D 6 & 7)
I							
2-6							

# JUNIOR SCHEDULES

203

## JUNIOR SECOND TERM SCHEDULE 1907-1908

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Graph Statics Greek 32 Mineralogy 34 Italian 36 M48	Graph Statics Greek 32 Mineralogy 34 Italian 36 M48	Graph Statics Greek 32 Mineralogy 34 Italian 36 M48	Adv Logic 34 a Exp Psych 34 b Geology 32 M4	Adv Logic 34 a Exp Psych 34 b Geology 32 M4	Adv Logic 34 a Exp Psych 34 b Geology 32 M4
9	Const Gov 34 Biology 32 M10 S25	Const Gov 34 Biology 32 M10 S25	Const Gov 34 Biology 32 M10 S25	History 32 Chem 32 b (Biol) C9 M46	History 32 Chem 32 b (Biol) C9 M46	History 32 Chem 32 b (Biol) C9 M46
10	Art & Arch 32 Geom & Diff Eq S7 Hn Math Calc B D 18 German 32 H M48	Art & Arch 32 Geom & Diff Eq S7 Hn Math Calc B D 18 German 32 H M48	Art & Arch 32 Geom & Diff Eq S7 Hn Math Calc B D 18 German 32 H M48	French 32 Hn An Mech J M22 German 34 Architecture 34 M Anal Mech II V D29 Anal Mech IV G M64	French 32 Hn An Mech J M22 German 34 Architecture 34 M Anal Mech II V D29 Anal Mech IV G M64	French 32 Hn An Mech J M22 German 34 Architecture 34 M Anal Mech II V D29 Anal Mech IV G M64
11	Eng Phil 34 Phys Geog 34 Geodesy S7	Eng Phil 34 Phys Geog 34 Geodesy S7	Eng Phil 34 Phys Geog 34 Geodesy S7	English Lit 32 Chem 32a (Chem) C9 (German 34, II D2)	English Lit 32 Chem 32a (Chem) C9 (German 34, II D2)	English Lit 32 Chem 32a (Chem) C9 (German 34, II D2)
12	Hist Philos 32 Spanish 38 Physics 32 Hon Phys D S10	Hist Philos 32 Spanish 38 Physics 32 Hon Phys D S10	Hist Philos 32 Spanish 38 Physics 32 Hon Phys D S10	Econ 36 (Econ II M22 & 48)	Econ 36 (Econ II M22 & 48)	Economics 36 (Econ 36 M44, 66)
1	Quan Analysis 34 C	Quan Analysis 34 C	Quan Analysis 34 C	Latin 34 Botany 34 (Econ III M44) (Econ IV M66)	Latin 34 Botany 34 (Econ III M44) (Econ IV M66)	Latin 34 Botany 34 (Econ III M44) (Econ IV M66)
2	Honors Physics E	Honors Physics E	Honors Physics E			

(2-13-08)

SENIOR FIRST TERM SCHEDULE, 1908-1909

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Spanish, 47 Chemistry, 45 Mineralogy, 47	Spanish, 47 Chemistry, 45 C Mineralogy, 47	Spanish, 47 Chemistry, 45 C Mineralogy, 47	Geology, 41 Mid H G, 43 M2	Geology, 41 Mid H G, 43 M2	N Geology, 41 Mid H G, 43 M2
9	Biological, 41 Outlines Phil, 41 Roman Law, 49 Art & Arch, 45 Bibl Lit	Lab Outlines Phil, 41 Roman Law, 49 M2 Art & Arch, 45 D8 Bibl Lit	Lab Outlines Phil, 41 Roman Law, 49 M2 Art & Arch, 45 D8 Bibl Lit	Economics, 49 Biological, 45 Hn Math b E D19	Economics, 49 Biological, 45 Hn Math b E D19	Economics, 49 Biological, 45 Hn Math b E D19
10	English, 41 Greek, 43 Chemistry, 43 Old French, 43	English, 41 Greek, 43 Chemistry, 43 Old French, 43	English, 41 Greek, 43 Chemistry, 43 Old French, 43	English, 43 Sanskrit Physics, 43 R Ph 309	English, 43 Sanskrit Physics, 43 R Ph 309	English, 43 Sanskrit Physics, 43 R Ph 309
11	Ethics, 45 Latin, 45 Politics, 47 Adv Old Eng, 45 French Lit, 41 Hn Phys d A Ph 304	Ethics, 45 Latin, 45 Politics, 47 Adv Old Eng, 45 French Lit, 41 Hn Phys d A Ph 304	Ethics, 45 Latin, 45 Politics, 47 Adv Old Eng, 45 French Lit, 41 Hn Phys d A Ph 304	Greek, 41 Math, 41 Hn A Math J M22 Amer Hist, 43 Architecture 43 Exp Psych, 43 Fund Prob Phil M4 Geology, 43	Greek, 41 Math, 41 Hn A Math J M22 Amer Hist, 43 Architecture 43 Exp Psych, 43 Fund Prob Phil M4 Geology, 43	Greek, 41 Math, 41 Hn A Math J M22 Amer Hist, 43 Architecture 43 Exp Psych, 43 Fund Prob Phil M4 Geology, 43
12	Art & Arch, 41 German, 41 History, 41 Physics, 41 Paleontology, 45	Art & Arch, 41 German, 41 History, 41 Physics, 41 Paleontology, 45	Art & Arch, 41 German, 41 History, 41 Physics, 41 Paleontology, 45	Politics, 45 Latin, 47 Theor P, Mot, 41 S3	Politics, 45 Latin, 47 Theor P, Mot, 41 S3	Politics, 45 Latin, 47 Theor P, Mot, 41 S3
1	Italian, 45 History, 43	Italian, 45 History, 43	Italian, 45 History, 43	Pract Astron, 41 Obs Theor P, Mot, 41 S3	Pract Astron, 41 Obs Theor P, Mot, 41 S3	Pract Astron, 41 Obs
2-6	Chem, 45 Hn Phys e C Ph 306	Chem, 45 Hn Phys e C Ph 306	Chem, 45 Hn Phys e C Ph 306	Chem, 41 Pract Astron, 41 Obs	Chem, 41 Pract Astron, 41 Obs	Chem, 41 Pract Astron, 41 Obs

# SENIOR SCHEDULES

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SENIOR SECOND TERM SCHEDULE 1907-1908

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Spanish 48 M26 Money & Bk M28	Spanish 48 M26 Money & Bk M28	Spanish 48 M26 Money & Bk M28	Geology 42 M26 German 44 M2	Geology 42 M26 German 44 M2	N Geology 42 M2 German 44
9	Biology 42 M28 English 42 M20 Roman Law 50 M2 Philosophy 42	Lab Biology 42 M28 English 42 M20 Roman Law 50 M2 Philosophy 42	Lab Biology 42 M28 English 42 M20 Roman Law 50 M2 Philosophy 42	Physics 44 M28 Economics 50 M28 French Lit 42 N Vert Pal 44	Physics 44 M28 Economics 50 M28 French Lit 42 N Vert Pal 44	S1 Physics 44 Economics 50 M28 French Lit 42 M48 N Vert Pal 44
10	Greek 44 Lit D8 Biblical Lit S13 Pr Mot 42 M2 Art & Arch 46 C Mineralogy 48	L Greek 44 D8 Biblical Lit S13 Pr Mot 42 M2 Art & Arch 46 C Mineralogy 48	L Greek 44 D8 Biblical Lit S13 Pr Mot 42 M2 Art & Arch 46 C Mineralogy 48	English 44 M46 Sanskrit M46	English 44 M46 Sanskrit M46	English 44 M46 Sanskrit M46 (Econ II D4)
11	Ethics 46 M24 Latin 46 M28 Politics 48 S13 Pr Mot 42 Old French Phys Chem 44 C Mathematics 42 M67	M4 Ethics 46 M24 Latin 46 M28 Politics 48 S13 Pr Mot 42 Old French Phys Chem 44 C Mathematics 42 M67	M4 Ethics 46 M24 Latin 46 M28 Politics 48 S13 Pr Mot 42 Old French Phys Chem 44 C Mathematics 42 M67	Greek 42 M24 Amer Hist 44 M46 Philos 44 M4 Architecture 44	Greek 42 M24 Amer Hist 44 M46 Philos 44 M4 Architecture 44	Greek 42 M24 Amer Hist 44 M46 Philos 44 M4 Architecture 44
12	Art & Arch 42 M28 Paleontology 46 M28 History 42 German 42 D13 Physics 42	M Art & Arch 42 M28 Paleontology 46 M28 History 42 German 42 D13 Physics 42	M Art & Arch 42 M28 Paleontology 46 M28 History 42 German 42 D13 Physics 42	Politics 46 M28 Latin 48 M20 Geology 44 Math 44	Politics 46 M28 Latin 48 M20 Geology 44 Math 44	Politics 46 M28 Latin 48 M20 Geology 44 Math 44 ED19
1	Italian 46 M20 Chemistry 42	Italian 46 M20 Chemistry 42	Italian 46 M20 Chemistry 42	Pract Astron 42 Obs Chemistry 46 C	Pract Astron 42 Obs Chemistry 46 C	Pract Astron 42 Obs Chemistry 46 C
2				Pract Astron 42 Obs	Pract Astron 42 Obs	Pract Astron 42 Obs

(2-13-08)

C. E. JUNIOR AND SENIOR FIRST TERM SCHEDULE, 1908-1909

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	J Geodesy	S <sub>23</sub> J Geodesy	S <sub>23</sub> J Geodesy	S <sub>23</sub> J Mats Const	S <sub>32</sub> J Mats Const	S <sub>32</sub> J Geodesy
	S Geodesy	S <sub>12</sub> S Hydraulics	S <sub>32</sub> S Hydraulics	S <sub>32</sub> S Graphics	S	S <sub>12</sub>
9	J Geodesy	S <sub>23</sub> J Geodesy	S <sub>23</sub> J Geodesy	S <sub>23</sub> J Mats Const	S <sub>32</sub> J Mats Const	S <sub>32</sub> J Geodesy
	S Geodesy	S <sub>23</sub> S Hydraulics	S <sub>32</sub> S Hydraulics	S <sub>32</sub> S Graphics	S	S C E Lab I
	J Graphics	S <sub>10</sub> J Graphics	S <sub>10</sub> J Astronomy I	J An Mech I J An Mech II	S Graphics S Graphics	S C E Lab I S C E Lab II
10	S Fr Struct	S <sub>32</sub> S Fr Struct	S <sub>32</sub> S Fr Struct	S <sub>32</sub> S Fr Struct	S <sub>32</sub> S Fr Struct	S <sub>32</sub> S C E Lab I
	J Graphics	S	J Astronomy II	J An Mech III	S <sub>32</sub> S Fr Struct	S <sub>32</sub> S C E Lab I
11	S Fr Struct	S <sub>32</sub> S Fr Struct	S <sub>32</sub> S Fr Struct	S <sub>32</sub> S Fr Struct	S <sub>32</sub> S Fr Struct	S <sub>32</sub> S C E Lab II
	J Graph Stat	S <sub>16</sub> J Astronomy	J Graph Stat	S <sub>16</sub> J Graph Stat	S <sub>16</sub> J Geodesy	S <sub>12</sub> J Astronomy
12	S Geodesy	S <sub>12</sub> S Geodesy	S <sub>23</sub> S Th Pr Mots	S <sub>32</sub> S Th Pr Mots	S <sub>32</sub> S Th Pr Mots	S <sub>32</sub> S C E Lab II
	J Graph Stat	S <sub>16</sub>	J Graph Stat	S <sub>16</sub> J Graph Stat	S <sub>16</sub> J Geodesy	S <sub>12</sub>
1	S Geodesy	S <sub>12</sub> S Geodesy	S <sub>23</sub> S Th Pr Mots	S <sub>32</sub> S Th Pr Mots	S <sub>32</sub> S Th Pr Mots	S <sub>32</sub>
				J Geodesy	S <sub>12</sub> J Geodesy	S <sub>12</sub>
2-5	S Geodesy	S <sub>12</sub> S Geodesy	S <sub>12</sub>	S C E Lab I	S C E Lab II	

Junior subjects are indicated by J before the subject. Senior subjects are indicated by S before the subject. 10-1-08



C. E. JUNIOR AND SENIOR SECOND TERM SCHEDULE, 1907-1908

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	J Geodesy S12	J Geodesy S12	J Geodesy S12	J Geodesy S12	J Geodesy S12	J Astronomy I Obs
9	J Geodesy S31	J Geodesy S12 & 23	S Constr S12 & 23 J Geodesy S12 & 23	S Constr S13 J Geodesy S12	S Mas Str S13 J Geodesy S12	S Mas Str S13 J Astronomy II Obs
10	S Roads S12 J Graphics S10	S Water Wks S13 J Graphics S10	S Constr S13 J Graphics S10	S Constr S13 J An Mech II V D29 J An Mech IV G M64	S Mas Str S13 J An Mech II V D29 J An Mech IV G M64	S Mas Str S13 J An Mech II V D29 J An Mech IV G M64
11	S Pr Motors S13 J Graphics S10	S Pr Motors S13 J Graphics S10	S Pr Motors S13 J Graphics S10	S Sewerage S13 J An Mech I E D19 J An Mech III V D29	S Sewerage S13 J An Mech I E D19 J An Mech III V D29	S Water W S13 J An Mech I E D19 J An Mech III V D29
12	S Pr Motors S13	S Pr Motors S13 J Mech Mat 1 S1	S Pr Motors S13 J Mech Mat 1 S1	S Sewerage S13 J Astronomy 1 Obs	S Sewerage S13 J Mech Mat 1 S1	S Roads S13 J Mech Mat 1 S1
1		J Mech Mat II S1	S Fr Str S13 J Mech Mat II S1	S Fr Str S13 J Astronomy II Obs	S Fr Str S13 J Mech Mat II S1	J Mech Mat II S1
2	SCE Lab J Geodesy SCE Lab	J Geodesy SCE Lab	S Fr Str S13	S Fr Str S13	S Fr Str S13 J Astronomy Obs	

Junior subjects are indicated by J before the subject. Senior subjects are indicated by S before the subject. (9-13-08)

## THE GRADUATE SCHOOL

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The affairs of the Graduate School are administered by a Dean, with an Advisory Committee of the University Faculty. The committee consists of the President and Dean, *ex-officio*, and Professors Scott, Magie, Fine, Thompson, Hibben, Harper, and Butler. All inquiries should be addressed to Professor West, Dean of the Graduate School.

Only those who possess a Bachelor's degree from Princeton University, or from another University maintaining a similar standard in distinctively liberal studies for the Bachelor's degrees, may be enrolled on their diplomas as graduate students. Graduates of other universities and colleges may be admitted as graduate students only upon examination. They may, however, on presentation of their diplomas and other satisfactory credentials, be enrolled without examination as undergraduates in the class to enrolment in which their proficiency entitles them.

Students by pursuing appropriate courses may qualify themselves for the degree of Master of Arts. The degree of Doctor of Philosophy is conferred according to the regulations prescribed under the heading "Degrees."

No person in candidacy for a higher degree in another institution may at the same time be in candidacy for any degree in this University.

All graduate students, whether graduates of Princeton or of another university, are required to enroll their names at the office of the Dean of the Graduate School. Grad-

uates of other universities than Princeton are required to pay a matriculation fee of five dollars.

All graduate students, except Fellows, shall pay the sum of five dollars for each course each term. The total maximum charge is not to exceed twenty dollars a term. Undergraduate courses of lectures or instruction are also open to graduate students, but undergraduates are not admitted to the graduate courses. Extra charges will be made for certain laboratory courses, the amount to depend on the nature of the course pursued.

#### THE GRADUATE HALL

The house and grounds of "Merwick," an estate of eleven acres on Bayard Lane, within five minutes' walk of the University, has been secured as a residential hall of the Graduate School and placed in the immediate charge of Professor Howard Crosby Butler, of the University Faculty. The number of graduate students taken in residence is limited to fourteen, and eight more are admitted to the table. Through the liberality of several friends of the University the equipment and maintenance of "Merwick" have been so far provided for that the expenses of graduate students who are admitted to its privileges will be moderate.

An additional house, known as The Annex, has been secured, affording lodgings for eight students. Other desirable rooms in town may be secured at moderate rates.

All applications for information on these matters should be made to the Dean of the Graduate School.

It is expected that Thomson College, the new residential hall of the Graduate School, will be ready for occupancy by September, 1910.

## GRADUATE COURSES OF INSTRUCTION

The courses which are open to *graduate students only* are as follows:

## PHILOSOPHY

- 103, 104. The Philosophy of Kant. The Critique of Pure Reason, The Metaphysic of Ethics, The Critique of Practical Reason, The Critique of Judgment, and Religion within the Limits of Pure Reason, will be read and systematically discussed. Occasional lectures will also be given. Both terms, 3 hours a week. Professor Norman Smith.
- 105, 106. Experimental Psychology. Laboratory course, consisting largely in research work, with weekly conference for original reports. Both terms, 3 hours a week. Professor Warren.
- 107, 108. Seminary in General Philosophy. Topic for the year: Des Cartes and Spinoza. Conducted by reading, theses, and discussions. Both terms. Professor Ormond.
- 109, 110. Psychological Seminary. Conducted by reading theses, and discussions. Topic to be determined in consultation with class; open to graduate students in philosophy and psychology. Both terms. Professor Warren or Professor Norman Smith.
111. Theory of Mental Measurements. First term, 3 hours a week. Professor Warren.
- 113, 114. Readings in German Philosophy. Both terms, 3 hours a week. Hegel's *Logik*. Professor Hibben.
- 115, I. Hedonism and the Ethics of Naturalism. First term, 3 hours a week. Professor G. S. Patton.
- 116, I. Self-realization and the Ethics of Idealism. Second term, 3 hours a week. Professor G. S. Patton.
- 115, II. History of English Ethics. First term, 3 hours a week. Professor G. S. Patton.

- 116, 11. Problems in Contemporary Ethics. Second term, 3 hours a week. Professor G. S. Patton.
- 117, 118. Aesthetics. A systematic study of the principal problems of aesthetics, based upon a critical examination of the classical works on the subject and including a detailed study of recent tendencies and recent contributions. Both terms, 3 hours a week. Professor A. L. Jones.
- 119, 120. The Philosophy of Evolution. In this course the purpose is to consider the philosophical problems involved in both the biological and psychological aspects of ontogenetic and phyletic development. Both terms, three hours a week. Professor Spaulding.
121. The Nature of Judgment. This course will present the nature of judgment in its philosophical, logical, psychological, and linguistic aspects, aiming to acquaint the student with the standard literature of the subject. First term, 3 hours a week. Lectures and reading. Professor Sheldon.
122. Principles of Science. A study of those terms and relations of science which are logically and metaphysically fundamental. Second term, 3 hours a week. Professor Marvin.
123. Sensations and their Physiological and Physical Basis. First term, 3 hours a week. Dr. Vaughan.
124. Schopenhauer and Nietzsche. Second term, 3 hours a week. Dr. Fogel.
125. Symbolic Logic. First term, 3 hours a week. Professor Marvin.

## HISTORY, POLITICS, AND ECONOMICS

- 101, 102. The French Revolution. A study of the causes of the movement. Ability to read French is required. Both terms, 3 hours a week. Professor Shipman.
103. England in the Nineteenth Century. A study

- of constitutional changes, the advance in the colonial system, and the development of the imperial idea. First term, 3 hours a week. Professor Myers.
105. The Teutonic Colonies in America during the Seventeenth Century. First term, 3 hours a week. Professor Dawson.
106. Causes of the American Revolution. A study of the conditions prevalent in the American Colonies of the British Empire in the first half of the eighteenth century, and of the circumstances surrounding the raising of the imperial issue after the close of the Seven Years' War. Second term, 3 hours a week. Professor C. W. Spencer.
108. The Evolution of the Federal Constitution of the United States. A study of the adoption of the constitution, its early interpretation, and some aspects of the later development of opinion relative to it. Second term, 3 hours a week. Professor Dawson.
109. History of the Doctrine of Nullification. First term, 3 hours a week. Professor McElroy.
112. The Reconstruction Period. A study of constitutional, political, and economic changes in the United States in 1865-1877. Second term, 3 hours a week. Professor Myers.
- 113, 114. The Administrations of President Grant. Both terms, 3 hours a week. Professor Corwin. [Given in 1909-1910.]
- 115, I. (Classics 161.) The Private Law Orations of Cicero, with a study of the legal institutions of his time. First term, 3 hours a week, alternating yearly with 115, II. Professor Westcott. [1908-1909.]
- 115, II. (Classics 163.) Sources of Early Roman Law. Bruns: *Fontes Juris Romani Antiqui*; Lindsay: *Latin Inscriptions*. First term, 3 hours a week, alternating yearly with 115, I. Professor Westcott. [1909-1910.]

- 117, 118. History of the English Common Law. Both terms, 3 hours a week. Professor McIlwain.
119. International Law and Diplomacy. A study of cases, with particular reference to the diplomatic history of the United States and the part played by the United States in the development of international law. First term, 3 hours a week. Professor Elliott.
120. Advanced Economic Theory. An exposition of economic theory; essentially a contrast of the classical and post-classical theories of distribution. Seminary course for competent graduates. Second term, 3 hours a week. Professor Daniels.
- 121, 122. History of Economics. A resumé of economic ideas from the Middle Ages to modern times. Both terms, 3 hours a week. Professor Adriance.
125. History and Theory of Transportation. A survey of the improvements in methods and instruments of transportation since the application of steam, with the consequent changes in legal and economic theories relating to public carriers. The questions of state control, ownership, and operation are treated with special reference to American conditions. A reading knowledge of French and German will be helpful. First term, 3 hours a week. [Not given in 1908-1909.] Professor Meeker.
126. The Industrial Evolution of the United States. An investigation in the development of typical American industries, domestic and foreign commerce, labor organizations, and similar problems. Second term, 3 hours a week. Professor Bogart.

## ART AND ARCHÆOLOGY

101. Greek Architecture. This course will consist of a critical study of Vitruvius's *De Architectura*. First term, 3 hours a week. Professor Marquand.

- 103, 104. Christian Architecture. A practical study of ecclesiastical architecture, from the fourth century to the twelfth, including the subjects of the construction, design, and details of the early Christian, Byzantine, and Romanesque periods, with exercises in drawing. Requires elementary knowledge of the history of Christian art and Mediæval history, and ability to read French. Both terms, 3 hours a week. Professor Butler.
106. Renaissance Architecture. A practical study of the architecture of the Renaissance in Europe, with exercises in design. Requires knowledge of the elements of architecture; of shades, shadows, and perspective; and ability to read French. Second term, 3 hours a week. Professor Butler.
- 107, 108. Pausanias. A study of the topography and monuments of Greece, as described by Pausanias and illustrated by the results of recent excavations. Both terms, 3 hours a week. Professor Tonks.
109. Early Christian Archæology. This course consists of an introduction, in which is traced the transformation effected by Christianity in the types, traditions, and spirit of classic art, and a separate treatment of each of the subjects of early Christian Symbolism, Painting, Sculpture, minor arts, and Epigraphy, with supplementary consideration of the artistic monuments and inscriptions as historical evidence bearing on the development of the Christian Church and doctrine. Graduate course, first term, 3 hours a week. Professor Morey.
110. Roman Topography. A study of the topography and monuments of ancient Rome. Second term, 3 hours a week. Professor Morey.



## INDO-IRANIAN

- 101, 102. Elementary Sanskrit. Grammar, exercises, and reading, with comparison of sounds and forms with the Latin, Greek, and Germanic. This course is intended especially for students of the Classical and Germanic languages. The Sanskrit is taught from the comparative standpoint, and its relationship in sounds, inflections, and syntax to the other Indo-European languages is emphasized. Geiger's *Elementarbuch der Sanskrit-Sprache* (Kaiser, Munich), Whitney's *Sanskrit Grammar*, Lanman's *Sanskrit Reader*, Thumb's *Handbuch des Sanskrits* (Winter, Heidelberg). Both terms, 3 hours a week. Professor Winans or Professor Robbins. [1908-1909.]
- 103, 104. Advanced Sanskrit. Reading of classical and Vedic Sanskrit in the first and second terms respectively. Both terms, 3 hours a week. Professor Winans. [1909-1910.]

Courses in Avestan, Gothic, Lithuanian, and Old Bulgarian will be given if they are called for.

## CLASSICS.

## GREEK.

102. Comparative Greek Grammar. Phonology and morphology. An introduction to the historical and comparative study of the Greek language. The course is introduced by lectures on phonetics and the fundamental principles of linguistic work. The grammar is presented by lectures accompanied by assigned reading and practical exercises. An elementary knowledge of Sanskrit is desirable but not necessary. Brugmann's *Griechische Grammatik* (Beck, Munich) or Hirt's *Handbuch der griechischen*

*Laut-und Formenlehre* (Winter, Heidelberg). First term, 3 hours a week. Professor Robbins. [1908-1909.]

Given in alternate years with Comparative Latin Grammar and required of candidates for the Doctor's degree.

- 102, 103. Greek Composition. A practical course in the writing of Greek prose, accompanied by a review of Greek forms and syntax. One hour in weekly conferences throughout the year. Professor Van Hook. [1909-1910.]

Given in alternate years with Latin Composition and required of candidates for the Doctor's degree.

104. Thucydides. A critical study of selected portions of the History. Second term, 3 hours a week. Professor Winans. [1909-1910.]
106. Plato. The Symposium. Studies in text, interpretation, Platonic idiom, structure. Collateral reading in Xenophon, Aristotle, Diogenes Laertius. Second term, 3 hours a week. Professor Winans. [1908-1909.]
107. Greek Literary Criticism. A study of the ancient Greek literary criticism and rhetoric from the beginnings. Special attention will be given to the rhetorical works of Aristotle and to the reading of selections from Dionysius of Halicarnassus and Longinus On the Sublime. Collateral reading and reports. First term, 3 hours a week. Professor Van Hook. [1908-1909.]
108. Demosthenes. Private Orations. The private orations will be interpreted, with discussion of typical questions of Athenian private law. Second term, 3 hours a week. Professor Capps. [1909-1910.]
- 109, 110. Pindar and Bacchylides. The extant poems of both poets will be interpreted and certain of them

critically studied. The course is designed to give a practical introduction to Greek metrics. Both terms, 3 hours a week. Professor Capps. [1908-1909.]

- III. Aristotle. The Athenian Constitution. In addition to the interpretation of the text extensive collateral reading will be assigned in the historians and in Plutarch. Topics in Athenian constitutional history and political institutions will be assigned for report, and members of the course will be encouraged to undertake original studies in these fields. First term, 3 hours a week. Professor Capps. [1910-1911.]
- II2. Aristotle. The Politics. An introduction to the political and economic writings of Aristotle and to the social and political thought of Greece. The whole of the work will be read with collateral readings in Plato's Republic and Laws. Second term, 3 hours a week. Professor Capps. [1910-1911.]
- II3, II4. Greek Comedy. The course of development of comedy will be followed from the beginnings down to the perfected New Comedy. The plays of Aristophanes will first be rapidly reviewed, with a detailed study of their structure and technique. Especial attention will be paid to the early period and to the two great periods of transition. Reports upon articles, monographs, and individual poets will be called for and topics in dramatic technique, literary history and chronology will be assigned for investigation. Both terms, 3 hours a week. Professor Capps. [1908-1909.]
- II5. Greek Inscriptions. Lectures will be given on the history of classical epigraphy, the alphabet, and the methods of interpretation. Practical exercises will be held in reading from casts and squeezes.

Inscriptions of especial historical value, chiefly those of the fifth century, will be interpreted and discussed. First term, 3 hours a week. Professor Prentice. [1909-1910.]

116. Topography of Attica. This course will deal primarily with the topography of Athens and of Attica. The first book of Pausanias will be read and studied critically, with special reference to the problems concerning the city walls before and after Peisistratus, the temples of the acropolis, the precincts of Dionysus, the Pnyx and agora. Reports will be read by members of the class on various topics. Lectures will be given on the life of Pausanias, his sources and the value of his book not only with reference to Archæology in general but also to Mythology and History. Second term, 3 hours a week. Professor Prentice. [1909-1910.]
117. Zosimus and the Establishment of the Christian Church. Portions of Zosimus' History will be read; also Eusebius' Ecclesiastical History, particularly the last two books, and the life, addresses, and decrees of Constantine. The development of the organization of the Christian Church will be traced and its establishment under Constantine studied from the historical point of view with the use of both literary and epigraphical sources. First term, 3 hours a week. Professor Prentice. [1910-1911.]
118. Greek History. Lectures will be given on Greek History, beginning with the earliest times and extending as far as the limits of the course permit. Special attention will be paid to the sources for Greek history and to the methods of historical criticism. Extended reading will be required of the students in the Greek historians, including the fragments of lost works; and reports will be heard upon particular topics.

Second term, 3 hours a week. Professor Prentice.  
[1910-1911.]

- 119, 120. The Greek Theatre. The general field of Greek scenic antiquities will be covered by lectures and reports; but attention will be directed particularly to unsolved problems in connection with the history and structure of the theatre, technical terms, scenic appliances, the dramatic contests, and the like. The course will be given a practical bearing by the scenic analysis of a number of plays by each member of the class. Both terms, 3 hours a week. Professor Capps. [1910-1911.]

- 121, 122. Introduction to the Principles and Methods of Text Criticism. Portions of a single play of Euripides will be critically interpreted by the instructor and by members of the class in turn. Occasional lectures by the instructor on the aims and methods of textual criticism and interpretation; practical exercises in the construction of an apparatus criticus. First term, 3 hours a week. Professor Capps. [1909-1910.]

124. Greek Dialects. A study of the sounds and forms of the various dialects, on the basis of the dialect inscriptions. Most of the inscriptions read are found in Causer's *Delectus Inscriptionum Graecarum*, third edition (Hirzel, Leipzig). Second term, 3 hours a week. Professor Robbins. [1908-1909.]

This course alternates with that on the Italic Dialects.

126. Greek Historians of the Empire. Wide reading in such authors as Josephus, Plutarch, Cassius Dio, and Herodian will be required; analytical and comparative study of the testimony of these sources for certain periods of imperial history. Second term, 3 hours a week. Professor Stuart. [1908-1909.]

127. Arrian and the Sources of the History of Alexander. A critical study of Alexander's conquests. The ancient authors dealing with the subject will be read with a view to comparing their accounts with one another, and to discovering the different lines of tradition. The origin and development of the *vulgata* will be traced. First term, three hours a week. Professor Prentice. [Not given in 1908-1909.]
128. Homeric Antiquities. Lectures will be given on the general subject. Special topics will be studied, such as the Homeric state and institutions, houses and furniture, dress and private life, slavery, trade and crafts, war and weapons, religion and worship. Reports will be heard from the members of the class. Second term, 3 hours a week. Professor Prentice. [Not given in 1908-1909.]
- 129, 130. Greek Tragedy. The beginnings of tragedy and the course of its development will be treated in lectures, with consideration of the legendary material, the external conditions in which tragedy arose, the dramatic and scenic adjustment of its parts, the language and metres, and the history of our texts. The course will involve the reading and analysis of a number of tragedies by each member of the class and a general survey of all the extant plays by the instructor. Both terms, 3 hours a week. Professor Capps. [1909-1910.]

## LATIN

- 131, 132. Latin Composition. A practical course in the writing of Latin prose, accompanied by a review of Latin forms and syntax. The exercises will be based on Cicero's *Laelius*, and will consist of continuous passages in argumentative and essay style. One

hour in weekly conferences throughout the year. Professor Kellogg. [1908-1909.]

Given in alternate years with Greek Composition, and required of all candidates for the Doctor's degree.

133. Comparative Latin Grammar. Phonology and morphology. An introduction to the historical and comparative study of the Latin language. Lectures and assigned reading. The practical exercises will be based upon Lindsay's *Latin Inscriptions*. An elementary knowledge of Sanskrit is desirable but not necessary. Sommer's *Handbuch der Lateinischen Laut-und Formenlehre* (Winter, Heidelberg). First term, 3 hours a week. Professor Robbins. [1909-1910.]

Given in alternate years with Comparative Greek Grammar and required of candidates for the Doctor's degree.

- 135, 136. The Life and Works of Cicero. A study will be made of the order and circumstances of the composition of the writings of Cicero, and of the significance of Cicero in literary and political history. Reports on representative works will be prepared by members of the class and submitted for general discussion. Both terms, 3 hours a week. Professor Magie. [1908-1909.]
137. Lucretius. Reading of the *De Rerum Natura*, with intensive study of Book II, involving exercises in criticism, interpretation, and the constitution of the text; consideration of Lucretius' sources and the philosophical content of the poem, with some emphasis upon its literary form and characteristics. First term, 3 hours a week. Professor Basore. [1908-1909.]
- 139, 140. Virgil. The works of Virgil and the Appendix

- Vergiliana will be studied chiefly in their literary aspects. Attention will be paid to the poet's motives sources, technique, and his influence on subsequent literature. Lectures and interpretations; reports on topics of Virgilian criticism. Both terms, 3 hours a week. Professor Stuart. [1908-1909.]
142. Livy. Study of the credibility, sources, methods, and purpose of the History, and the development of the author's style. The results of study will be embodied in weekly reports. In 1908-1909 the Third Decade will be studied. Second term, 3 hours a week. Professor Westcott. [1908-1909.]
143. Plautus. The course will deal, on the literary side, with dramatic form, character-drawing, diction, and style; on the linguistic side, with vocabulary, metrical treatment, and ante-classical forms and constructions. First term, 3 hours a week. Professor Abbott. [1908-1909.]
144. Early Roman Satire. A study of the Satire before Horace and of Horace and Persius, with attention to the problems of language, form, and content. Second term, 3 hours a week. Professor Kellogg. [1909-1910.]
146. Tacitus. Reading of the whole of the author's works so far as not previously read. Study of date, sources, method, purpose, etc., of each work, and of the development of the author's style in his successive periods. Results of study to be embodied in weekly papers to be handed in and discussed. Second term, 3 hours a week. Professor Westcott. [1909-1910.]
147. Early Latin. Allen's *Remnants*, Merry's *Fragments of Roman Poetry*, and Bücheler's *Carmina Epigraphica*. The object of the course is especially to give some clear and ordered knowledge of the beginnings of Roman literature. The treatment will be



- mainly philological and literary. First term, 3 hours a week. Professor Abbott. [1909-1910.]
148. Italic Dialects. Buck's *Grammar of Oscan and Umbrian* will be used. The aim of the course will be the historical and comparative study of these dialects in their relations to Latin. Second term, 3 hours a week. Professor Robbins. [1909-1910.]
149. Biographers of the Emperors. Velleius, Suetonius, and the *Scriptores Historiæ Augustæ*; consideration of the biography as a literary form; critical examination of several *Vitæ*; instruction in the collateral and supplementary use of inscriptions and coins. First term, 3 hours a week. Professor Stuart. [1909-1910.]
- 151, 152. The Latin Romance. Attention will be directed in the main upon Petronius and Apuleius. The purpose of the course will be to study the origin, the history, and the characteristics of the Latin Romance. Papers will be presented from time to time by the members of the class. Both terms, 3 hours a week. Professor Abbott. [1909-1910.]
- 153, 154. Latin Inscriptions. A large number of inscriptions will be read and interpreted from the printed text and from squeezes; special historical topics will be taken up for investigation, and a thorough working knowledge of the contents of the *Corpus Inscriptionum Latinarum* will be acquired. Both terms, 3 hours a week. Professor Abbott. [1908-1909.]
156. History of Rome under the Early Empire. Lectures on the history of Rome from the beginning of the principate of Augustus to the death of Marcus Aurelius. The more important sources for some special period will be read and discussed by members of the class, and occasional reports on assigned

- topics presented. Second term, 3 hours a week. Professor Magie. [1909-1910.]
157. Roman Provincial Administration. A study of the Roman system of government and taxation in the provinces, based mainly upon Cicero's orations against Verres and his letters from Cilicia, Pliny's correspondence with Trajan, and the inscriptions. This course is intended to supplement the Research Course in Roman Politics. First term, 3 hours a week. Professor Abbott. [1910-1911.]
158. Roman Municipal Administration. Political conditions in the cities under the Empire and municipal systems of government will be studied from the extant charters and from literature. Second term, 3 hours a week. Professor Abbott. [1910-1911.]
160. Research Course in Roman Politics. The political history of the years 62-57, 49-48, and 44-43 B. C. will be studied from the sources; the careers of the leading politicians of those years will be followed, and the character and purposes of the several political parties will be examined. Second term, 3 hours a week. Professor Abbott. [1908-1909.]
161. [Hist., Pol. and Econ. 115, 1.] The Private Law Orations of Cicero. A study of the legal institutions of the time of Cicero. First term, 3 hours a week. Professor Westcott. [1908-1909.]
163. [Hist., Pol. and Econ. 115, 11.] Sources of Early Roman Law. Bruns' *Fontes Iuris Romani Antiqui* and Lindsay's *Latin Inscriptions* will be used. This course alternates yearly with the preceding. First term, 3 hours a week. Professor Westcott. [1909-1910.]
- 165, 166. Colloquial Latin. The object of the course will be to investigate some of the characteristics of colloquial Latin in the matter of lexicography, pro-

- nunciation, syntax, and style, and to determine to some extent the relation of colloquial to literary Latin, as well as its connection with archaic Latin on the one hand and with the Romance languages on the other. Both terms, 3 hours a week. Professor Abbott. [1910-1911.]
168. General Course in Classical Philology. Such topics will be briefly treated in lectures and in reports by students as the history of classical philology, the relation of the several fields to one another, the transmission and reconstruction of classical texts, the formation and use of a critical apparatus, the making of a lexicon, and the method to be used in testing the historical sources for a given period. Second term, 3 hours a week. Professor Abbott. [1909-1910.]
- 169, 170. Augustine and Patristic Latin. The *De Civitate Dei* will be read. Special attention will be given to its literary sources, argument, historical and philosophical bearings, and its relation to the other writings of Augustine. If time permits, other writings of Augustine, the *Apologeticus* of Tertullian and the *Octavius* of Minucius Felix, will be read. Both terms, 3 hours a week. Dean West. [1908-1909.]
- 171, 172. Early Mediæval Histories. The following writings will be studied: Iordanes: *Getica*; Eugippus: *Vita Sancti Severini*; Beda: *Historia Ecclesiastica*; Einhard: *Vita Caroli Magni*; Alcuin: *Epistles*. Both terms, 3 hours a week. Dean West. [1909-1910.]
- 173, 174. Later Mediæval Literature. Reading and interpretation of writers selected to illustrate various aspects of the later Mediæval Latin and the history and literature of the times. The books proposed for

reading are John of Salisbury: *Policraticus*; Roger Bacon: *Opus Majus*; Adam of Hamburg: *Descriptio Insularum Aquilonis*; Arnoldus: *Chronica Slavorum*; Richard de Bury: *Philobiblon*. Both terms, 3 hours a week. Dean West. [1910-1911.]

#### ENGLISH

- 101, 102. Historical English Grammar. Both terms, 3 hours a week. Given in 1908-1909, and alternate years following, by Professor Craig; given in 1909-1910, and alternate years following, by Professor Griffin.
- 103, 104. Old English Poetry. Both terms, 3 hours a week. Given in 1908-1909, and alternate years following, by Professor Spaeth; given in 1909-1910, and alternate years following, by Professor Gerould.
- 105, 106. Chaucer. Both terms, 3 hours a week. Professor Root.
- 107, 108. Elizabethan Drama. Both terms, 3 hours a week. Professor Parrott.
- 109, 110. Middle English Romances. Both terms, 3 hours a week. Given in 1908-1909, and alternate years following. First term: Professor Gerould. Second term: Professor Griffin.
- 111, 112. The Beginnings of the English Drama. Both terms, 3 hours a week. Given in 1909-1910, and alternate years following. Professor Craig.
- 113, 114. Milton. Both terms, 3 hours a week. Given in 1909-1910, and alternate years following. Professor Osgood.
- 115. Germanic Origins of English Speech. First term, 3 hours a week. Given in 1909-1910, and alternate years following. Professor Spaeth.
- 117. Shakespeare. First term, 3 hours a week. Given in 1908-1909, and alternate years following. Professor Parrott.

- 119. Modern Romantic Drama. First term, 3 hours a week. Given in 1908-1909, and alternate years following. Professor Harper.
- 121. History of Criticism. First term, 3 hours a week. Given in 1909-1910, and alternate years following. Professor Harper.

## MODERN LANGUAGES

## GERMANIC

- 101. Old High German. Grammar, reading, and lectures on the historical development of the German language. Knowledge of modern German and Middle High German required, and some knowledge of Gothic useful. Braune: *Althochdeutsches Lesebuch*; Braune: *Althochdeutsche Grammatik*. First term, 3 hours a week. Professor Hoskins.
- 102. Gothic. Grammar and reading. Wright: *Gothic Primer*; Bernhardt: *Vulfilä*. Second term, 3 hours a week. Professor Priest.
- 103. Middle High German. Grammar, lectures, and reading. The course is designed both to furnish a foundation for the historical study of modern German and to serve as an introduction to the study of Germanic philology. Proficiency in modern German is required. Paul: *Mittelhochdeutsche Grammatik*; Michels: *Mittelhochdeutsches Elementarbuch*; Weinhold: *Mittelhochdeutsches Lesebuch*. First term, 3 hours a week. Professor Hoskins.
- 104. Historical German Grammar. Introduction, phonology, morphology. Requires a knowledge of Gothic, Old and Middle High German. Lectures. References to Paul: *Grundriss der Germanischen Philologie*; Streitberg: *Urgermanische Grammatik*. Second term, 3 hours a week. Professor Hoskins.

- 106. Old Icelandic. Grammar, lectures, and reading. For advanced students. Noreen: *Altisländische und Altnorwegische Grammatik*; Kahle: *Altisländisches Elementarbuch*; Ranisch: *Die Volsungasaga*. Second term, 3 hours a week. Professor Hoskins.
- 107. The Influence of the Literature of England upon the Literature of Germany in the Eighteenth Century. First term, 3 hours a week. Dr. Richards.
- 110. History of the Drama in Germany. Second term, 3 hours a week. Professor Beam.
- 112. History of Lyric Poetry in Germany. Second term, 3 hours a week. Professor Blau.
- 113. History of the Novel in Germany. First term, 3 hours a week.

#### ROMANIC

- 101, 102. Old French Philology. Lectures on old French etymology, morphology, and syntax. Both terms, 3 hours a week. To alternate with 103, 104. Professor Buffum.
- 103. Folk-Latin. This course will begin with a brief historical sketch of the Romance nations from the time of the Roman colonization. The Roman and the Teutonic elements in Romance civilization will be contrasted. The phonology, morphology, and syntax of Folk-Latin will then be traced from the earliest period to the rise of the Romance literatures. Especial attention will be devoted to the contrast between Folk-Latin and classic Latin and to the Folk-Latin background of the Romance languages. First term, 3 hours a week. To alternate with 101. Professor Buffum.
- 104. French Dialects. The dialects of northern France or of the *Langue d'Oïl*, will be traced from the earliest monuments to the present day. Introductory lec-

tures will be given on the general theories of the origin and growth of dialects, especially with reference to the Romance group. The geographical position, phonology, morphology, and literature of the individual dialects of northern France will then be considered, especial attention being given to the study of illustrative texts. A knowledge of old French is required. Second term, 3 hours a week. To alternate with 102. Professor Buffum.

- 106. French Syntax. An historical survey of the field of French syntax. Second term, 3 hours a week. Dr. Mathews.
- 107. The Renaissance in France. First term, 3 hours a week. Professor Moore.
- 109. The National Epic to the End of the Twelfth Century. First term, 3 hours a week. Professor Collins.
- 110. The Breton Epic. Second term, 3 hours a week. Professor Critchlow.
- 111. The French Drama Prior to the Cid. First term, 3 hours a week. Mr. Stuart.
- 112. The Development of Literary Criticism in France. Second term, 3 hours a week. Professor Gauss.
- 113, 114. Old Spanish readings, including a study of the phonology, morphology and historical syntax of the old Spanish language. Both terms, 3 hours a week. Professor Northup.

#### MATHEMATICS

- 101. Theory of Substitutions. Elementary theory of substitutions. Groups of substitutions and rotations. Application of the theory of groups to the solution of algebraic equations. First term, 3 hours a week. Professor Gillespie.
- 102. Theory of Invariants. The theory of invariants and covariants of binary quantics, developed in

- the symbolic notation of Clebsch. Second term, 3 hours a week. Professor Gillespie.
103. Theory of Numbers. Divisibility of numbers. Congruences. Fermat's and Wilson's theorems. Quadratic residues. Binary quadratic forms. The quadratic number-field. First term, 3 hours a week. (Not given 1908-1909.)
- 105, 106. Theory of Functions of a Complex Variable. Review of elementary theory of functions of a real variable. Uniform convergence. Differentiation and integration of series. The complex variable. Study of the rational function. Conformal representation. Cauchy's theorem. Taylor's theorem. Laurent's series. Singularities of analytic functions. The theory of residue. Application to the evaluation of definite integrals. Multiple valued functions and the corresponding Riemann surfaces. Analytic continuation. Periodic functions. Introduction to the theory of elliptic and automorphic functions. Both terms, 3 hours a week. Dr. Swift.
- 107, 108. Theory of Functions of a Real Variable. The real number system. Sets of numbers. Theory of limits. Continuous functions of one variable. Infinitesimals. Differentials. Derivatives. Proper and improper definite integrals. Iterated limits. Infinite series. Partial differentiation. Multiple integrals. Implicit functions. Curves and regions. Existence theorems for differential equations. Fundamental theorems on the complex variable. Throughout the course applications will be made to the elementary functions. Both terms, 3 hours a week. Professor Veblen.
109. Algebraic Functions. Introduction to the theory of algebraic numbers and to the theory of algebraic functions of a single variable. First term, 3 hours a week. Professor Fine.



110. Elliptic Functions. Periodic functions. General theorems on elliptic functions. Functions of Weierstrass and Jacobi. Theta and modular functions. Addition theorems and transformations. Applications to the integral calculus, geometry and mechanics. Second term, 3 hours a week. Professor MacInnes.
111. Linear Differential Equations. From the standpoint of the theory of functions. The nature of integrals in the neighborhood of ordinary points. Fundamental systems. Integrals in the neighborhood of singular points. Equations with constant coefficients. Equations of the Fuchsian class. The equation of the hypergeometric function. Systems of linear equations. First term, 3 hours a week. (Not given 1908-1909.)
112. Partial Differential Equations. The geometrical interpretation of partial differential equations of the first order and their integrals. Existence of solutions. Linear equations. Complete systems. The general equation of the first order. Theory of characteristics. Introduction to the theory of partial differential equations of the second order. Second term, 3 hours a week. (Not given 1908-1909.)
114. Calculus of Variations. A discussion of the historical examples which lead to the development of the calculus of variations. General theory for plane curves, defined in the form  $y=f(x)$  and also in the parametric representation. Isoperimetric problems and problems in space. Double integrals. Second term, 3 hours a week. Professor Stromquist.
- 121, 122. Projective Geometry. In 1908-1909 this course will cover the same ground as Honors Course *a*. Both terms, 3 hours a week. Professor Veblen.

- 123, 124. Analytic Projective Geometry. Elementary projective properties of point ranges and line pencils. Classification and metrical properties of conics considered with reference to the line at infinity. Involutions of points on a line with application to conics and rational cubics. Clebsch's symbolic notation. Theory of higher plane curves. Both terms, 3 hours a week. Professor Hun.
- 127, 128. Differential Geometry. Properties of twisted curves, defined with reference to fixed or moving axes. Determination of a surface by two quadratic differential forms. The kinematical method. The geometry of a surface in the neighborhood of a point. General and particular systems of curves on a surface. Applications to the study of the quadrics, ruled surfaces, minimal surfaces and surfaces of constant curvature. Both terms, 3 hours a week. Professor Eisenhart.
129. Infinitesimal Geometry. Historical readings from some of the memoirs of Monge, Dupin, Gauss, Weingarten, Darboux and Bianchi. First term, 3 hours a week. Professor Thompson.
- 131, 132. Molecular Dynamics and the Kinetic Theory. Generalized dynamical coordinates, and introduction to the methods of statistical mechanics. Physical basis of the kinetic theory. Physical properties of gases interpreted by the kinetic theory. Discussion of the current problems and unsolved difficulties of the theory. Both terms, 3 hours a week. Professor Jeans.
134. Capillarity. Treatment of the various theories of capillarity. Form and stability of drops and films. Discussion of various experiments. Special problems. Second term, 3 hours a week. Dr. Swift.

## ASTRONOMY

- 101, 102. Theoretical Astronomy. Reading course. Calculation of Orbits. Watson; Oppolzer; Bauschinger. Both terms, 3 hours a week. Professor Dugan.
- 103, 104. Practical Astronomy. Theory of Instruments. Study of the determination of time, latitude, and azimuth; work with the equatorial on double stars, variable stars, and the sun. Both terms, 3 hours a week. Professors Dugan and Russell.
105. Theory and Method of Reduction of Photographic Star Plates. Determination of star-places from photographic plates, stellar parallax, and proper motion. First term, 3 hours a week. Professor Russell.
106. Spectroscopy. The theory and use of the spectroscope as an implement of astronomical investigation, with practical work in the observatory. Second term, 3 hours a week. Professor Russell.
- 107, 108. Celestial Mechanics. An introduction to the general problems of the motions of the heavenly bodies. Lectures and collateral readings in the treatise of Tisserand. Both terms, 3 hours a week. Professor Russell.

## PHYSICS

- 101, 102. Theory of Electricity. Reading course. Mascart et Joubert: *L'Electricité et le Magnétisme*. Both terms, 3 hours a week. Professor McClenahan.
- 103, 104. Absolute Measurements in Electricity and Magnetism. Reading course. Both terms, 3 hours a week. Professor McClenahan.
105. Theory of Heat. Laws of thermodynamics. Carnot's theorem. Absolute scale of temperature. The thermodynamic functions. Thermodynamic properties of homogeneous bodies. The ideal gas. Change of state. System of three phases. Critical

- temperature. Van der Waals's equation. Physical properties of solutions. Lectures. Buckingham: *Theory of Thermodynamics*. First term, 3 hours a week. Professor Magie.
107. Radioactivity. The discovery and preparation of radioactive substances. Nature and properties of radiation. Disintegration theory of radioactivity. Application of the phenomena of radioactivity to other fields. Rutherford: *Radioactivity*. First term, 3 hours a week. Professor Adams.
- 109, 110. Electron Theory and Atomic Structure. The development of the electron theory, based on Maxwell's equations, together with Lorentz's work and the idea of electro-magnetic mass. The application of the conception of the electron to the material furnished by the different branches of physics and especially by the science of optics, the conduction of electricity through gases, radioactivity, spectroscopy, and chemistry. Both terms, 3 hours a week. Professor Richardson.
111. Theory of Elastic Solids. The physical properties of actual solids. The ellipsoids of strain and stress and their respective properties. Potential energy of strained solids. Problem of Saint Vénant. Special problems of flexure and tension. Distentional and compressional waves in solids of two dimensions. Double refraction and the Fresnel wave front. First term, 3 hours a week. Professor Loomis.
112. Theory of Potential. Universal mass-attraction. The Laplace equation and potential function. Role of the potential function in attraction and repulsion. Surface distribution of attractive matter. Equation of Poisson and Green's theorem. Attraction due to an ellipsoid. Applications of the potential theory to problems in magnetism and electricity. Second term, 3 hours a week. Professor Loomis.

114. Electromagnetic Theory of Light. Reflection, refraction, dispersion, absorption. Rotatory polarization. Magneto-optics. Optical properties of metals. Laws of radiation. The relative motion of ether and matter. Second term, 3 hours a week. Professor Trowbridge.
- 115, 116. Theory and Practice of Exact Measurements. This course is intended for students who have already had training in general laboratory practice. It is designed to instruct them in more refined methods of observation, and especially to train them in the use of those instruments which are frequently employed in research. Both terms, 3 hours a week. Professor Loomis.
118. Atmospheric Electricity. Introduction to theory of ionized gases. Methods of observation. Atmospheric ionization, its causes and distribution. Atmospheric potential gradient. General electrical phenomena. Detailed discussion of work of various observers. Second term, 3 hours a week. Professor Cooke.
- 119, 120. (Mathematics 115, 116.) Molecular Dynamics and the Kinetic Theory of Gases. Generalized dynamical coordinates, and introduction to the methods of statistical mechanics. Physical bases of the kinetic theory. Physical properties of gases interpreted by the kinetic theory. Discussion of the current problems and unsolved difficulties of the theory. Both terms, 3 hours a week. Professor Jeans.
121. Electromagnetic Waves and Oscillations. First term, 3 hours a week. Professor Adams.

The physical laboratory is open throughout the week to graduate students.

## CHEMISTRY

- 101, 102. Advanced Quantitative Analysis and Research in Inorganic Chemistry. Both terms, 3 hours a week. Professor McCay.
104. The Rare Elements; including spectroscopic and other special methods of analysis. Second term, 3 hours a week. Prerequisite course: Quantitative Analysis. Professor Cornwall.
- 105, 106. Organic Chemistry. Lectures upon special topics, accompanied by the reading and discussion of the literature. Both terms, 3 hours a week. Prerequisite course: Elements of Organic Chemistry. Professor Neher.
- 107, 108. Advanced Laboratory Work in Organic Chemistry. Preparations, special methods of analysis and research. Both terms, 3 hours a week. Professor Neher.
109. Electrochemistry. Lehfeldt: *Electrochemistry*. First term, 3 hours a week. Professor Hulett.
110. Chemical Dynamics. Mellor: *Chemical Dynamics*; Nernst: *Theoretical Chemistry*. Second term, 3 hours a week. Professor Hulett.
- 111, 112. Research work in Physical Chemistry, especially in the field of Electrochemistry. Both terms, 3 hours a week. Professor Hulett.
114. Electroanalysis and Synthesis. Two laboratory periods are devoted to practice in modern methods of electroanalysis, electrolytic preparations and the determination of decomposition potentials. One lecture a week is devoted to the theoretical principles underlying the electrolytic deposition of the metals and electrolytic oxidation and reduction. Smith: *Electro-Analysis*; Lorenz: *Elektrochemisches Praktikum*; Foerster: *Elektrochemie*. Second term, 3 hours a week. Professor Hulett.

## GEOLOGY

101. Economic Geology. First term, 3 hours a week. Professor Farr.
- 103, 104. Stratigraphical Geology. Research course. Field and laboratory work, involving study and description of the stratigraphy, palæontology, and structure of the sedimentary rocks of some particular district, terminating in the preparation of a report according to official standards. Given during the summer vacation and both terms, number of hours indefinite. Professor van Ingen.
- 105, 106. Petrology. A more detailed study of the subject matter of course 48, together with research in some special branch of petrology. Laboratory, library, and field work continuing through one or more years. Both terms, number of hours indefinite. Professor Smyth.

## BIOLOGY

101. Cytology, Histogenesis, and Comparative Histology. Lectures and the practical study of the cell and its organs. Comparative studies of several tissues. Histogenesis, repair, and regeneration of the tissues. Methods of research and thesis work. First term, 3 hours a week. Professor Dahlgren.
102. Reproductive Cell Phenomena. Lectures, laboratory and research work on nuclear and cell division; origin and maturation of the germ cells; cleavage, differentiation, and promorphology of the egg; the cellular basis of inheritance and evolution. Second term, 3 hours a week. Professor Conklin.
103. Systematic Botany of the Vascular Plants. Structure as related to description and classification. Exercises in plant-description, rule of nomenclature, and the characters of the larger families of Angiosperms.

Campbell: *University Text-book of Botany*; Bentham and Hookes: *Genera of Plants*; Engler and Prantl: *Pflanzen-Familien*. First term, 3 hours a week. Professor Rankin.

105, 106. The Morphology of the Organ Systems of Vertebrates. Research course, both terms, 3 hours a week. Professor McClure.

107. Comparative Morphology of the Invertebrates. First term, 3 hours a week. Professor Rankin.

109. Palæontology of Mammals. First term, 3 hours a week. Professor Scott.

110. Palæontology. The morphology and phylogeny of living and extinct vertebrates other than mammals. Second term, 3 hours a week. Professor Farr.

#### DIRECTORS OF THE SEMINARIES

1908-1909

##### *Philosophical Seminary*

Professor Norman Smith.

##### *Economic Seminary*

Professor Meeker.

##### *Classical Seminary*

Professor Capps.

##### *English Seminary*

Professor Parrott.

##### *Romance Seminary*

Professor Moore.

##### *Mathematical Seminary*

Professor Eisenhart.



## DEGREES

The following degrees are given for graduate study:  
Master of Arts and Doctor of Philosophy.

## MASTER OF ARTS (A.M.)

The degree of Master of Arts may be conferred only upon those who hold a Bachelor's degree in the liberal arts and sciences from this or another approved college maintaining similar standards of liberal education, who shall also have devoted one year exclusively to graduate study in the University under the care of the Faculty, passing examinations upon the studies pursued; or shall have taken graduate courses in the University involving at least three hours a week each term for four terms and passed satisfactory examinations upon these courses, and on such extra reading as may be assigned. The degree may also be conferred upon a Bachelor of this University who shall have submitted to the Faculty a satisfactory dissertation, ordinarily of not less than five thousand words, on some literary, philosophical, or scientific subject previously approved by the Faculty, in April, not earlier than the third year after graduation. The fee for the degree is ten dollars, to be paid to the Dean of the Graduate School either before the candidate enters his last examinations, or else when his dissertation is handed in.

Every resident candidate shall announce to the Faculty, at least eight months before the degree can be conferred, the subjects which he intends to offer for examination. These subjects will be such as to form a consistent and well coördinated body of studies, and shall be subject to the approval of the Faculty.

## DOCTOR OF PHILOSOPHY (PH.D.)

Subject to the regulations hereinafter stated, the degree of Doctor of Philosophy may be conferred upon any Bache-

lor of Princeton University, or of another approved institution whose academic course is equivalent to that pursued in Princeton, provided he has spent at least two years in exclusive study for the degree. One of the two years must be spent in Princeton, and the other either at Princeton or some other approved university.

#### REGULATIONS

I. *The Preliminary Examination.*—Every applicant before enrolment as a candidate for the Doctor's degree must pass an examination in Princeton on the first Wednesday following the opening of the academic year in September.

All applicants are examined on their ability to read ordinary French and German with a fluency sufficient to ensure their use as instruments of advanced study. They are also examined in the group of subjects connected with the general department of their proposed studies as detailed below:

A. In the Department of Philosophy: Ability to read Latin with a fluency sufficient to ensure its use as an instrument of advanced study; general psychology and logic; history of philosophy, ancient and modern; outlines of general history.

B. In the Department of Language and Literature: Outlines of general history; general knowledge of the English language and literature; ability to read Greek and Latin with a fluency sufficient to ensure their use as instruments of advanced study.

C. In one of the following six groups in the Department of Mathematics and Science:

1. In Mathematics: Elementary mathematics, including trigonometry, analytical geometry, the elements of the theory of equations, and the differential and integral calculus.

2. In Astronomy: Elementary mathematics, including trigonometry and analytical geometry; general astronomy; general physics.

3. In Physics: Elementary mathematics, including trigonometry and analytical geometry; general physics.
4. In Chemistry: General chemistry; general physics.
5. In Geology and Physical Geography: Elements of geology, zoology, and botany; general chemistry.
6. In Biology: Elements of zoology and botany; general chemistry.

II. *Chief Subject of Study.*—Every candidate, after passing his preliminary examination and before entering on his studies for the Doctor's degree, shall announce which one of the subjects in the appended list he selects as his chief subject, and shall thereon present to the Committee on the Graduate School for their approval a statement of the said chief subject to which he intends devoting himself while a candidate, with such fulness of explanation as the committee may require.

A. Department of Philosophy: Logic, psychology, ethics, metaphysics, history of philosophy, philosophy of religion, history, political economy, science of politics, jurisprudence, archæology and art.

B. Department of Language and Literature: Sanskrit, Greek, Latin, French, German, Italian, English (including old English).

C. Department of Mathematics and Science: Mathematics, astronomy, physics, chemistry, geology and physical geography, biology.

III. *The Subsidiary Subjects.*—In addition to the chief subject the candidate shall select two suitable subsidiary subjects and announce them to his examiners at some time in the first year of his course. One of these must be logic, psychology, ethics, or the history of philosophy, unless the candidate has chosen for his chief subject any one of those just named or else passes a satisfactory special examination on some one of them before entering upon his course as a candidate. The subsidiary subjects should be cognate to

the chief subject, but not included under it, and with this restriction any study enumerated in the lists of chief subjects may be taken, as well as the following which are not thus enumerated: physiological psychology, pedagogics.

IV. *The Thesis*.—The candidate shall present a thesis on some special topic in the department which constitutes his chief subject at least four months before the degree can be granted. The thesis is not ordinarily to exceed twenty thousand words in length, and shall not be accepted unless it contains evidence of thorough scholarship and ability to pursue original research, and, if accepted, it must be published by the candidate before the degree can be conferred. If the thesis is not accepted the candidate will not be admitted to the final examination.

V. *The Final Examination*.—After the thesis has been accepted the candidate may proceed to his final examination at a time appointed by the Committee on the Graduate School. This examination in the chief and subsidiary subjects is to be conducted orally in the presence of the Faculty and cannot be divided. In the chief subject, however, there may be a written examination in addition to the oral, if the examiner so requires. The candidate will be examined on his general knowledge of the chief subject, and will be expected to show in addition a minute and complete acquaintance with some one principal part of it.

VI. *The Conferring of the Degree*.—Candidates who pass the final examination are ordinarily recommended to the Trustees for the Doctor's degree, and if the Trustees adopt the recommendation, the degree is publicly conferred by the President at the annual Commencement in June. The degree of Doctor of Philosophy carries with it that of Master of Arts.

VII. *Fees*.—Those who apply for the degree shall pay the Dean of the Graduate School a fee of sixty dollars, in two instalments of thirty dollars, the first to be paid

when the candidate is enrolled and the second when he sends in his thesis.

#### ACADEMIC COSTUME

The regular academic costume, characteristic of the preceding degrees, and appropriate for official academic occasions and official appearances in public, consists of three parts: the gown, the hood, and the cap. With respect to each of these parts certain things are prescribed, in conformity with similar rules prescribed by other universities after a general conference. These regulations, given below, arrange a scheme which makes the academic costume a plain badge of the grade of the degree, of the faculty to which the degree pertains, and of the institution granting the degree.

**GOWNS.**—The *pattern* is that fixed by custom, with pointed sleeves for the Bachelor's degree, with long closed sleeves for the Master's degree, and with round open sleeves for the Doctor's degree. The *material* shall be worsted stuff for the Bachelor's degree, silk for the Master's and Doctor's degrees. The *color* shall be black. *Trimmings*: For the Bachelor's and Master's degrees the gown shall be untrimmed; for the Doctor's degrees the gown shall be faced all the way down the front with black velvet, with bars of the same across the sleeves; or the facings and cross-bars may be of velvet of the same color as the edging of the hood, given below, being distinctive of the faculty to which the degree pertains. The facing is about three inches wide, the crossbars are three in number, on the outside front of each sleeve, and are about an inch wide and three inches apart.

**HOOD.**—The *pattern* is that fixed by custom. The *material*, the same as that of the gown (worsted for Bachelors, silk for Masters and Doctors). The *color* of the outside, black. The *lining* (which is distinctive of the institution

granting the degree), orange and black—the official colors of Princeton. It is the custom to have a black chevron upon an orange background. The *length* and *form* as follows: For the Bachelor's degree the length shall be three-fourths that for the Master's degree; for the Master's degree the length is that fixed by custom, not exceeding four feet; that for the Doctor's degree is of the same length, but shall have panels at the sides. It is the practice to have the panels edged with the color of the lining. The *trimmings*, binding, or edging (on the outside of the hood where it opens at the top), not more than six inches in width (two for Bachelors, three for Masters, five for Doctors), shall be of silk, satin, or velvet (velvet by custom); the color to be distinctive of the faculty to which the degree pertains, thus:

*White*—Faculty of Arts and Letters (A.B., A.M., Litt.B., Litt.D. or L.H.D.).

*Scarlet*—Faculty of Theology (B.D., D.D., S.T.D.).

*Purple*—Faculty of Law (LL.B., LL.D., J.U.D., D.C.L.).

*Green*—Faculty of Medicine (M.D.).

*Dark Blue*—Faculty of Philosophy (Ph.B., Ph.D.).

*Gold Yellow*—Faculty of Science (B.S., C.E., E.E., M.S., D.Sc.).

*Brown*—Faculty of Fine Arts.

*Pink*—Faculty of Music (Mus.B., Mus.D.).

CAP.—The cap is of the material and form fixed by custom, commonly called a trencher cap or mortar-board. The color shall be black. The Doctor's cap may be of velvet.

Each cap shall be ornamented with a long tassel attached to the middle of the top. The tassel of the Doctor's cap may be, in whole or in part, of gold thread.

## FELLOWSHIPS

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### I. UNIVERSITY FELLOWSHIPS

These fellowships were founded by subscription and endowment and were intended by the founders to encourage study and promote original research in the several departments to which they are assigned. They are distinguished from the College fellowships by being open to the graduates of any American college, while the appointments are made, not by competitive examination, but by a comparison of the records presented by the applicants as to their previous collegiate standing, capacity, and character.

The University fellowships are subject to the following regulations:

1. A Fellow must devote himself to study under the direction of the department in which the fellowship is provided. But any Fellow resident in Princeton may be called upon occasionally to give instruction in his department.

2. A Fellow is not ordinarily permitted to give private tuition.

3. The fellowships are to be held for one year, but in cases of special merit they may be continued for a longer period by recommendation of the department and sanction of the Faculty.

4. The candidates shall be graduates possessing a satisfactory Bachelor's diploma in liberal studies from an accredited American college. An application should be accompanied with evidence of the qualifications of the applicant to pursue an independent course of study and investigation in the department concerned, and a statement that the applicant, if appointed, agrees to accept the fellowship, unless released by the University.

5. Appointment shall be made by the Faculty upon recommendation of the professors in the department interested, and shall be announced at Commencement.

6. All applications should be in the hands of the Dean of the Graduate School of the University on or before March 15th, the appointees to hold their positions for a year from the following September. Applications received later than March 15th may be considered in special cases, and to fill vacancies.

It is deemed essential to the development of the Graduate School that the number of these fellowships should be largely increased. The following have already been founded:

#### J. S. K. MATHEMATICAL FELLOWSHIP FUND

This fund was founded in 1873 by a resident of New York City, who gave \$11,000 for the purpose. Through accumulations of interest it now amounts to \$16,500. In accordance with the deed of gift, "the income from this fund is to be devoted exclusively to fellowship purposes in the department of mathematics."

One fellow in mathematics will be appointed each year. Frequently a second fellow may be appointed. Appointments will be made on the basis of the records presented by the applicants as to their previous collegiate standing, capacity, and character. In addition, in the case of resident students, a competitive examination may be held in June on geometry, differential equations, and the theory of functions.

#### SOUTH EAST CLUB UNIVERSITY FELLOWSHIP IN SOCIAL SCIENCE

This fellowship, which pays to the holder \$500 per annum, was founded by alumni of the classes of '76, '77, '78, and '79—former residents of the South Entry of East College.



## CLASS OF 1877 UNIVERSITY FELLOWSHIP IN BIOLOGY

This fellowship pays to the holder \$400 per annum.

CHARLES SCRIBNER UNIVERSITY FELLOWSHIP IN ENGLISH  
LITERATURE

This fellowship, which yields the holder \$500 per annum, was founded in memory of Charles Scribner, of the class of 1840, by his son, Mr. Charles Scribner, of the class of 1875.

## UNIVERSITY FELLOWSHIP IN ARCHÆOLOGY

This fellowship pays to the holder \$400 per annum.

## THAW FELLOWSHIP IN ASTRONOMY

This fellowship, which pays to the holder the income of \$10,000, was founded by Mrs. William Thaw.

## JOHN HARDING PAGE CLASSICAL FELLOWSHIP

This fellowship was established in 1900 by Mrs. James Laughlin, Jr., as a memorial to her father, Mr. John Harding Page. It is conferred by appointment of the Faculty and pays the holder the income of \$10,000.

## FRANCIS HINTON MAULE BIOLOGICAL FELLOWSHIP

This fellowship was founded in 1901 by Mr. and Mrs. Francis I. Maule as a memorial of their son, Francis Hinton Maule, who was a student in the University during the years 1895-98. It is conferred by appointment of the Faculty and pays the holder the income of \$10,000.

## CLASS OF 1860 EXPERIMENTAL SCIENCE FELLOWSHIP

This fellowship was founded in 1870 upon the sum of \$10,000 subscribed by the class of 1860. A deficiency of income, resulting from the depreciation of the value of the securities in which the principal was invested and the lower-

ing of the rate of interest, is paid, by the consent of the donor, from the income of the Magee Professorship of Mining and Engineering, founded by George J. Magee, Esq., of the class of 1860.

By action of the Board of Trustees, taken in 1904, this fellowship was constituted a University Fellowship, to be administered, under the regulations governing the administration of such fellowships, by the Departments of Physics and Chemistry.

#### THE PORTER OGDEN JACOBUS FELLOWSHIP

Established in 1905 by the generosity of Mrs. Clara Cooley Jacobus. This fellowship will be conferred upon that regularly enrolled student of the graduate school who, in the judgment of the University Faculty, shall have evinced the highest scholarly excellence in his graduate work during the year. The appointee to this fellowship receives the income from an endowment of \$25,000 and is expected to devote himself exclusively to study under the direction of the Faculty.

#### HARVARD FELLOWSHIP IN CHEMISTRY

Founded in 1905 by the generosity of one of the Fellows of Harvard University. The holder of this fellowship receives the income of \$10,000.

#### ORSON DESAIX MUNN UNIVERSITY FELLOWSHIP IN ELECTRICAL ENGINEERING

This fellowship was established in 1908 as a memorial to Orson Desaix Munn by his son, Charles A. Munn, of the Class of 1881, and Mrs. Henry Norcross Munn.

It is awarded to the applicant who has made the best record in undergraduate work in Princeton, or other accredited college, and who shows the highest qualifications

in respect to those subjects which are directly preparatory to the course in Electrical Engineering.

It is conferred by appointment of the Faculty, upon recommendation by the School of Electrical Engineering, and pays the holder the income of \$10,000.

All applications must be in the hands of the School of Electrical Engineering before April 15th.

## II. COLLEGE FELLOWSHIPS

Besides the degrees and honors conferred in the regular course, annual fellowships, competitive scholarships, and prizes are offered as special incentives to study, in the classes or departments with which they are connected.

Only matriculated students who are candidates for a degree are admitted to the competition for these fellowships, prizes, and scholarships, and no one is admitted to such competition who has failed to pass satisfactorily his last preceding examination in any of the departments.

No member of any class is allowed to compete for more than one of the fellowships or scholarships offered to that class.

The names of the fellows, scholars, and prizemen of each year are included in the Honor List for the year.

The funds for the competitive fellowships, prizes, and scholarships are special gifts, and the income is appropriated according to the specific instructions of the donor. They do not belong to the general funds of the University.

Every competitor must have been a member of the University in full standing for at least two academic years previous to the fellowship examinations.

Every Fellow obtaining one of the competitive fellowships, the income of which is \$400 or over, must devote his whole time for one year to study in the department for

which the fellowship is provided, under the direction of the professors in that department. He must reside in Princeton, unless by a vote of the Faculty he be allowed to study at an approved foreign university, in which case he shall from time to time furnish written reports of his work to the professors in his department. The result of every examination and the reports of work done abroad shall be immediately returned to the Faculty. Any Fellow, resident in Princeton, shall when called upon perform such duties in the department to which he belongs as may be assigned to him by the President at the request of the professors in that department. Any Fellow may be allowed to occupy free of cost in one of the University buildings a room assigned to him by the University authorities, and while occupying such room he shall be regarded as a resident officer of the University, and shall perform such duties in preserving order and decorum in the University edifices as the President and Dean of the Faculty may assign.

#### CHANCELLOR GREEN MENTAL SCIENCE FELLOWSHIP

This fellowship, originally founded in 1870 upon the annual payment of \$600 by the late Chancellor Henry W. Green, was permanently endowed in 1878 by a gift of \$10,000 by his widow.

The income of this fund, at the current rate of interest, to be paid quarterly, will be awarded to that member of the Senior class who shall write the best essay on a subject to be assigned by the Department of Philosophy (to be given in on or before June 1), and who shall stand highest at a special examination to be held in June.

The examination will include the philosophies of Plato, Aristotle, Descartes, Locke, Leibnitz, Hume, Reid, and Kant; also theoretical ethics, metaphysics, psychology, and inductive logic.

## BOUDINOT FELLOWSHIPS

These fellowships are founded in part upon a bequest of Dr. Elias Boudinot, of New Jersey.

**THE HISTORICAL FELLOWSHIP.**—The sum of \$200 per annum, to be paid quarterly, will be given to the holder of the fellowship, who shall be appointed by the Faculty, upon the nomination of the President and the professor or professors of history, for any period not exceeding three years, on condition that he reside in Princeton and devote his whole time to historical research, that he deliver such lectures and conduct such exercises as the President and professor or professors of history shall direct, and that he perform such other duties as may be assigned him in accordance with the general regulations respecting the duties of resident Fellows.

**THE MODERN LANGUAGE FELLOWSHIP.**—Candidates for this fellowship must have completed the French and German courses of Junior and Senior years, amounting to at least three hours a week in each subject for both terms of both years. The sum of \$200, to be paid quarterly, will be awarded to that member of the Senior class who shall pass the best examination in June on the following subjects:

In German—Translation from English into German; the reading at sight of German prose, historical and literary; history of German literature; Behagel's *Die Deutsche Sprache*.

In French—Translation from English into French; a knowledge of historical French Grammar; the history of French literature; and work in Molière's plays, portions of Pascal, Madame de Sévigné, Voltaire, and Victor Hugo, to be assigned upon application. An essay of not less than four pages (foolscap) in either French or German.

The Fellow shall from time to time during the following year, as may be required by the Professors of Modern Lan-

guages, give evidence by papers that he is reading such a course as the professors may approve.

#### THE E. M. BIOLOGICAL FELLOWSHIP

This fellowship will be awarded after a competitive examination on subjects assigned by the professors in the Department of Biology.

The competition for this fellowship will be open to any member of the Senior class, or to any college graduate who shall have pursued during the preceding year the university course in biology at Princeton, and who shall, in the opinion of the examiners, be deemed competent to pursue the subject advantageously.

This fellowship conveys the use of a table in the Laboratory of the U. S. Bureau of Fisheries at Woods Hole, Mass., together with all the facilities afforded for the collection and study of animal life during the season favorable for such investigations. In the winter months following this laboratory work the Fellow will pursue his studies at Princeton, and will be required to prepare and submit a thesis embodying the results of his summer researches.

The examination for this fellowship in 1909 will be held in June upon the following subjects:

1. Life-history of higher cryptogams and gymnosperms.
2. Anatomy and embryology of mollusca.
3. Anatomy and embryology of the teleosts and selachians.
4. The histology of the nervous system.

#### SAYRE FELLOWSHIP IN APPLIED CHEMISTRY

This fellowship was founded by the bequest of the late Dr. John Stanford Sayre, of the Class of 1878, and pays an annual stipend of \$600.

**SAYRE FELLOWSHIP IN APPLIED ELECTRICITY**

This fellowship was founded by the bequest of the late Dr. John Stanford Sayre, of the Class of 1878, and pays an annual stipend of \$600.

It will be awarded to that member of the senior class in Princeton, who shall pass the best examination in general physics, general chemistry and mathematics, including elementary differential equations. The examinations will be held in Princeton on or about June first.

The holder of the fellowship will be required to devote his entire time to work under the direction of the School of Electrical Engineering.

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**JAMES W. QUEEN GRADUATE SCHOLARSHIP**

This scholarship was founded in 1908 on a bequest of \$5,000, by Mrs. Abby S. Queen. By action of the Faculty it has been assigned to the Department of Physics. The incumbent of the scholarship shall be a regularly enrolled graduate student of the University, who is doing a principal part of his work in the Department of Physics. The nomination to the scholarship, by the terms of the bequest, is made by the executors of Mrs. Queen's estate. Applications for it should be made to the head of the Department of Physics.

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NOTE:—Applications for the SAYRE FELLOWSHIP IN APPLIED ELECTRICITY and for the ORSON DESAIX MUNN FELLOWSHIP IN ELECTRICAL ENGINEERING should be made to the School of Electrical Engineering.

## THE UNIVERSITY LIBRARY

ERNEST C. RICHARDSON, PH.D., Librarian.

JUNIUS S. MORGAN, A.M., Associate Librarian.

W. HARRY CLEMONS, A.M., Reference Librarian.

MISS CHARLOTTE MARTINS, Chief of Purchase Department.

CHARLES A. GEORGE, A.M., Chief of Catalogue Department.

RALPH H. PEABODY, Evening Superintendent of Circulation.

WALTER RUE COTTRELL, Day Superintendent of Circulation.

The Library began with the College, Governor Belcher, the patron of the College, directing his especial attention and interest to it, and leaving to it his collection of 474 volumes. When the first catalogue was printed in 1760, the Library consisted of about 1,300 volumes. It was increased largely in the sixties, but was decimated during the Revolution and in 1796 numbered only 2,300 volumes. It was partly destroyed by fire in 1802, but shortly after its size was fully restored by gifts. In 1816 it numbered 7,000 volumes, in 1839, 8,000, and in 1850 it had advanced to 9,313 volumes. In 1868 it contained but 14,000 volumes, without separate building or librarian.

## THE CHANCELLOR GREEN LIBRARY

In 1868 the Elizabeth Fund for the purchase of books was created by John C. Green, Esq., and soon afterward he erected a library building (in 1872-3) named in honor of Chancellor Green. This Chancellor Green Library building, fitted throughout with the most modern system of heating, ventilation, and electric lighting, is the working library of the University for undergraduates, containing the standard and latest works in all departments and especially fitted for study. In addition the Chancellor Green Library contains the following special collections:



*The Charles Ewing Green Alcove.* The alcove facing the public entrance to the Chancellor Green Library has been set aside as a memorial to the late Charles Ewing Green, LL.D., class of 1860, for many years a Trustee of the University, and as the administrator of the John C. Green estate, one of Princeton's most generous and consistent benefactors. To commemorate the active interest which he always took in the Chancellor Green Library, as well as in the general library development of the University, the late Mrs. Charles E. Green has erected in this alcove a memorial tablet, and has placed upon the shelves books on classical philology. There are at present 2,786 volumes in this collection.

*The Class of 1883 Library* of Political Science and Jurisprudence, founded and endowed in 1893, contains at present 953 volumes. Location: alcove X, gallery.

*The Class of 1889 Library* of American History, established and endowed in 1899, contains at present 540 volumes. Location: alcove C, main floor.

*The Class of 1878 Library* of Chemistry, established and endowed in 1889. Numbering at present some 68 volumes, distributed among the collections relating to this subject. Location: alcove Z, gallery.

#### THE MAIN LIBRARY BUILDING

The Chancellor Green building having long been crowded beyond its calculated capacity, provision was made on the occasion of the Sesquicentennial by the late Mrs. Percy Rivington Pyne for a new building with a capacity of 1,200,000 volumes, besides adequate administration rooms, twenty rooms for instruction and research, and a large room for the exhibition of rare books. This building, of Longmeadow stone, in the Oxford Gothic style, forms a hollow quadrangle of about 160 feet square, connected with the Chancellor Green Library by a delivery room of 50 by 20

feet. It is fitted with modern improvements in heating, ventilation, stacks, electric elevators, interior telephone, etc., and has shelves at present sufficient for about 500,000 volumes. On the exterior of the western tower gateway are statues of President Witherspoon and President McCosh, James Madison, class of 1771, fourth President of the United States, and Oliver Ellsworth, class of 1766, second Chief Justice of the United States Supreme Court.

#### THE CENTRAL COLLECTION

The general collection which occupies the united buildings consists of 240,000 volumes and about 58,000 unbound periodicals and pamphlets. It includes, in addition to those already mentioned, the following special collections:

#### SPECIAL COLLECTIONS

*The Pyne-Henry Collection of Manuscripts*, relating to the history of the University, presented by M. Taylor Pyne, Esq., '77, and the Hon. Bayard Henry, '76. 1,469 documents. Location: exhibition room.

*The Morgan Collection of Virgils*, presented by Junius S. Morgan, Esq., '88. 664 volumes. Location: exhibition room.

*The Pierson Civil War Collection*, presented by John S. Pierson, Esq., '40. 6,538 volumes; 2,520 unbound pamphlets; including also several thousand clippings. Location: stack, fourth floor.

*The Paton Spanish War Collection* of newspapers and magazines, presented by William Agnew Paton, Esq. 70 volumes. Location: stack, fourth floor.

*The Princeton University Collection*, including the large collection of Princetoniana presented by Professor William Libbey, '77. 4,944 volumes. Location: stack, fourth floor.

*The Class of 1875 Library of English Poetry and Drama.* 1,398 volumes, distributed among the collections relating to these subjects.

*The Garrett Collection of Oriental Manuscripts*, consisting of 1,845 manuscripts, chiefly in Arabic, but including 75 manuscripts in twenty-five other languages, *e.g.*, Latin, Greek, English, Persian, Pali, Javanese, Chinese, Japanese, etc., deposited in the University Library. This collection is most exhaustive and includes books on law, medicine, mathematics, natural sciences, poetry, history, biography, geography, travels, rhetoric, grammar, and lexicography, as well as works on the Mohammedan religion and the exegesis of the Koran. Location: northwest corner, second floor, left.

*The Willard Hall Porter Law Library*, presented by Mrs. Willard Hall Porter and her son, W. H. Porter, Jr., 1903. 1,800 volumes. Location: stack, fourth floor.

*The Samuel Miller Collection*, presented by Samuel Miller Breckinridge Long, 1903, in memory of Judge Samuel Miller Breckinridge, '50. 1,200 volumes distributed through related subjects.

*The Patterson Collection*, consisting of 112 rare and choice books, presented by Robert W. Patterson, Esq., '76. Location: exhibition room.

Special collections, other than of books or manuscripts, are:

*The Garrett Collection of Coins*, deposited in the University Library. This collection, embracing also specimens from many foreign countries, contains an unusually fine series of American coins. In addition to the coins that have been used for money the collection includes many medals commemorative of notable historic events and persons.

*The Hutton Collection of Death Masks*, presented by the late Laurence Hutton, A.M. 74 masks. Location: exhibition room.

## SEMINARY AND OTHER SPECIAL LIBRARIES

Certain rooms in the Main Library Building are available for the use of seminaries, organized under the rules of the Faculty for "the development among our higher students of independent scholarly ability by extensive advanced study and training in the methods of original research." Several rooms have been assigned and provided with special libraries, partly by loan from the main collection, but chiefly by special endowment and purchase. The following have been established:

*The Philosophical Seminary.* Founded by Mrs. C. B. Alexander (ethics), and by the Class of 1882 (logic and metaphysics). 1,802 volumes; 1,413 theses. Location: southeast corner, second floor.

*The Economic Seminary.* Founded by the Class of 1888. 2,020 volumes. Location: southeast corner, first floor.

*The Political Seminary.* Founded by various alumni and friends. 415 volumes. Location: southeast corner, second floor.

*The Classical Seminary.* Founded by a friend of the University. 6,506 volumes; 20,905 theses. The Classical Seminary at present occupies five rooms in the southwest corner of the building.

*The English Seminary.* Founded and supported by Charles Scribner, Esq., '75. 1,691 volumes; 680 theses. Location: northwest corner, first floor.

*The Romance Seminary.* Founded by the Class of 1890. 1,824 volumes; 265 theses. Location: northwest corner, first floor.

*The Mathematical Seminary.* Founded by the Hon. John L. Cadwalader, '56; Professor M. Allen Starr, M.D., LL.D., '76; David B. Jones, Esq., '76; Thomas D. Jones, Esq., '76; Chandler W. Riker, Esq., '76; and the Hon. Adrian Riker, '79. 2,023 volumes; 1,172 theses. Location: northwest corner, second floor.

*History.* Founded by Mr. and Mrs. M. Taylor Pyne in memory of Robert Stockton Pyne. 2,662 volumes. Location: southeast corner, second floor.

*Germanic Languages.* Founded by the Class of 1891, and including the library of the late Professor Willard Humphreys. 1,985 volumes; 130 theses. Location: southeast corner, first floor.

*Semitic Languages.* 713 volumes. Location: northwest corner, second floor.

#### DEPARTMENT LIBRARIES

These are libraries selected from the general collection and kept in proximity to the corresponding laboratories. The following are organized:

*Art;* The Marquand Collection, presented by Professor Allan Marquand, '74, consisting of about 4,000 volumes on the history of art. In the Art Museum.

*Astronomy;* containing at present about 1,250 volumes and 519 theses. In the Working Observatory.

*Biology;* supported by Charles W. McAlpin, Esq., '88. About 1,222 volumes; 110 theses. In the Biological Laboratory.

*Botany;* containing 520 volumes. In the School of Science Building, second floor.

*Geology and Palæontology;* about 2,500 volumes. In Nassau Hall, second floor, western end.

*Engineering,* including the Class of 1878 Library of Engineering; about 900 volumes. In the School of Science Building, second floor.

#### USE OF THE LIBRARY

The Library is open from 8 A. M. until 10 P. M. during term time, and from 9 A. M. until 1 P. M. in vacation.

Books may be drawn by all officers and students of

the University and Theological Seminary, and by any person properly introduced. The number of books which may be taken is limited to three in the case of undergraduates, with the exception of Seniors, who may take five. Officers, Fellows, and graduate students may take any reasonable number. Books may be kept by undergraduates for two weeks, by Fellows and graduate students for four weeks, and by officers for any reasonable time. All books may be renewed when due, unless wanted by some one else.

Fines are charged at the rate of two cents a day on all books kept overtime. If an overdue book is wanted at the Library for any reason, it may be sent for and a charge of ten cents for messenger made. Postal cards are sent as a reminder of books overdue only when the books are wanted by others. No books may be drawn while there are unpaid fines.

#### THE HALL LIBRARIES

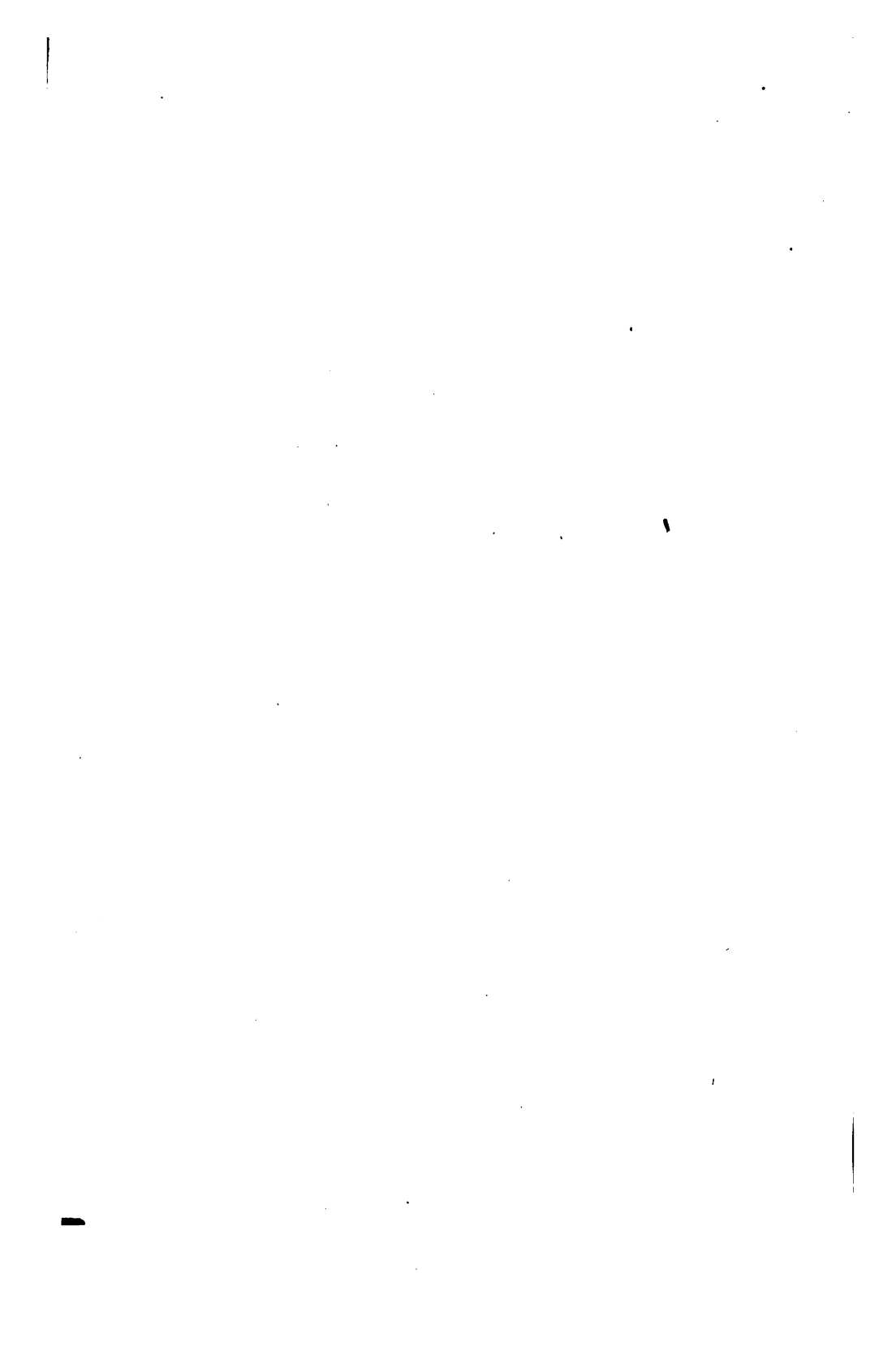
The two literary societies—the Whig and the Clio-sophic—have catalogued libraries of more than 10,000 volumes each, and the religious society, the Philadelphian, one of 1,000 volumes.

#### THE THEOLOGICAL SEMINARY LIBRARY

The Library of the Princeton Theological Seminary contains 81,000 volumes, which are distributed in two buildings. The one, the general library, is open to the students of the University for consultation and loan of books on Saturday, from 9 A. M. to 1 P. M., and on every other week-day from 9 A. M. to 1 P. M. and from 2 to 4 P. M. The other, the reference library, is open on every week-day from 9 A. M. to 1 P. M., from 2 to 5 P. M., and from 7 to 10 P. M.

## SUMMARY OF LIBRARIES

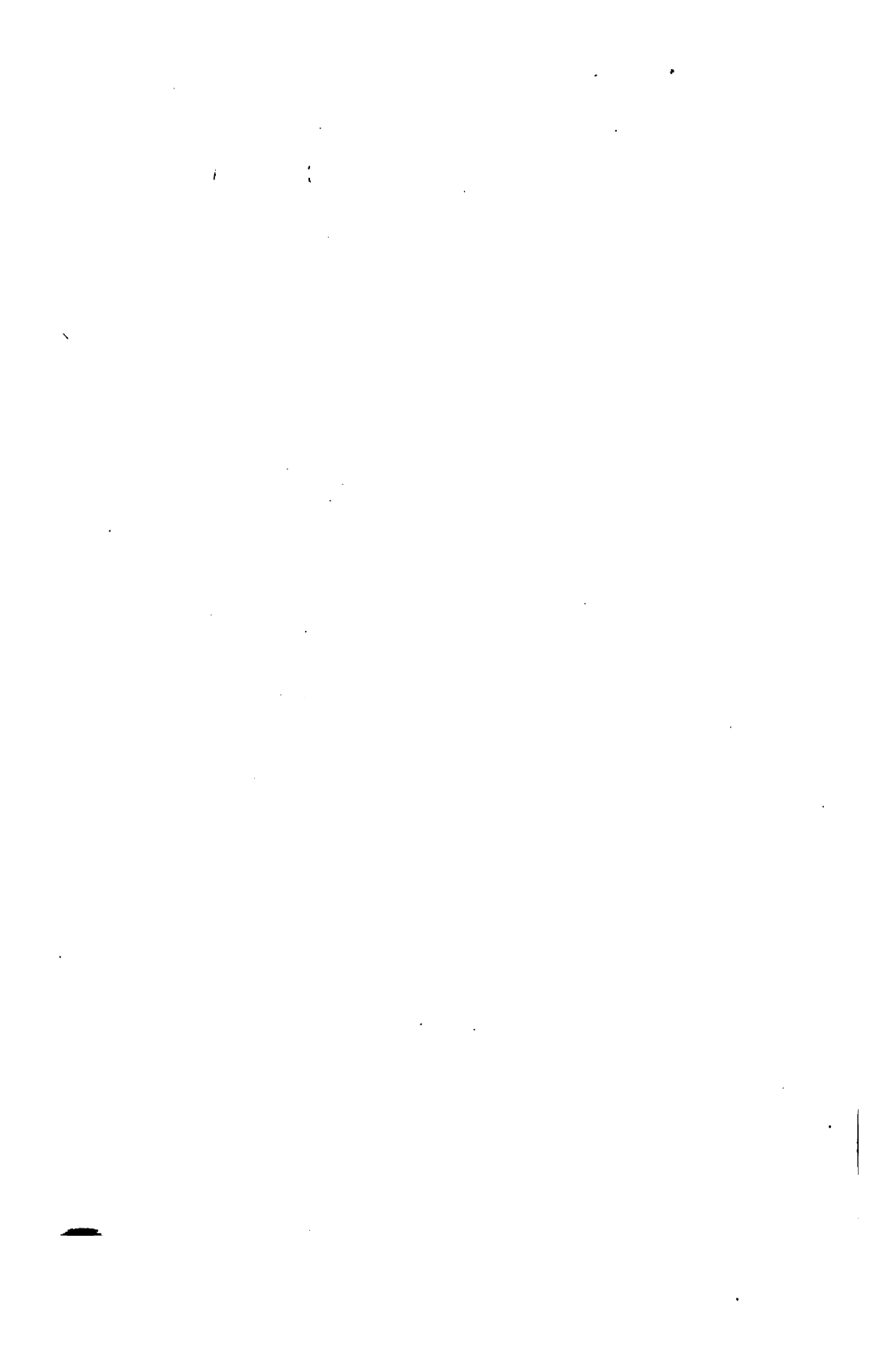
University Library, .....	240,000
Hall Libraries, .....	21,000
Theological Seminary Library, .....	81,000
<hr/>	
Total (exclusive of pamphlets and duplicates),	342,000





PART VI

EXAMINATIONS, STANDING, AND  
GRADUATION; HONORS; GEN-  
ERAL ORDERS; AND PUB-  
LIC LECTURES



## EXAMINATIONS, STANDING, AND GRADUATION

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### MODE OF CONDUCTING EXAMINATIONS

All written examinations and written recitations are conducted under the honor system. A student is not watched during an examination by any officer of the University, but he is required to write on his paper a pledge that he has not been guilty of any dishonesty or irregularity in connection with the examination.

The administration of the honor system is in the hands of a student committee by whose rules it is the recognized duty of every student to report to the committee any evidence of dishonesty in examination that may come under his observation. If after investigation of such evidence the committee finds a student guilty of dishonesty, it reports his case to the Faculty with a recommendation that he be finally dismissed from the University.

### REGULATIONS RESPECTING CONDITIONS AND ABSENCE FROM EXAMINATION

#### I

Conditions are incurred:

1. By failure to satisfy the requirements of any course. The requirements of a course include both the term work and the examination.

2. By exclusion from an examination because of classroom absences. A student shall be excluded by the instructor from the examination in any course who has unexcused absences as follows:

Three or more from the exercises of any one hour course.

Six or more from the exercises of any two hour course.

Nine or more from the exercises of any three hour course.

Eleven or more from the exercises of any four hour course.

Fourteen or more from the exercises of any five hour course.

In applying this rule a course shall be considered to consist of as many weekly exercises as are regularly given to class-room instruction.

3. By exclusion from an examination on the recommendation of a preceptor. On the recommendation of a preceptor a Department may exclude a student from the examination in any course in which his work with the preceptor has been unsatisfactory.

4. By exclusion from an examination on the recommendation of a laboratory instructor. On the recommendation of a laboratory instructor a Department may exclude a student from the examination in any course in which his work with the laboratory instructor has been unsatisfactory.

5. By absence from an examination. Absence from an examination, due to whatever cause, is counted as a condition if the term grade in the subject is below the passing mark. Every absence from an examination is counted as a condition unless the student presents to the Committee on Examinations and Standing satisfactory evidence that the absence was unavoidable. In all cases of absence from an examination, the deficiency must be made up as if it were a condition.

## II

1. A student who, at the end of a term, has conditions amounting to half a term's work, or more, may not graduate with his class. In applying this rule, (1) not only condi-

tions of that term are counted, but also conditions of a year's standing or more, and all entrance conditions not removed by the beginning of Sophomore year; (2) unavoidable absence from an examination shall be counted as a condition one year after the date of the omitted examination, unless meanwhile the deficiency has been made good.

2. A student of the Department of Civil Engineering thus deficient, or a Freshman who at the end of his first term fails in half of his work, or more, may, after the lapse of a whole term during which he must be absent from Princeton, and with the permission of the Faculty, enter the next lower class; but a student dropped from his class at the end of an academic year may, with the permission of the Faculty, be allowed to enter the next lower class at the beginning of the next academic year.

3. Any other student, except a Senior, thus deficient may, after the lapse of a whole term during which he must be absent from Princeton, and with the permission of the Faculty, either enter the next lower class, or re-enter college with an arrangement of studies which will make it possible for him to meet the requirements for his degree by the February following the graduation of his class; but a student dropped from his class at the end of an academic year may, with the permission of the Faculty, be allowed to enter the next lower class at the beginning of the next academic year.

4. A student thus deficient at the end of the first term of Senior year may, with the permission of the Faculty, continue with his class during the second term with an arrangement of studies which will make it possible for him to meet the requirements for his degree by the February following the graduation of his class. This rule does not apply to students of the Department of Civil Engineering. (See § 2 above.)

5. A student of the Department of Civil Engineering who, after the condition examinations in September, has standing against him a condition in any mathematical or technical course shall be dropped from his class. [This rule first applies to the class of 1911. In cases where it applies, it will replace rules 6 and 7 of section III.]

6. A Senior who, at the end of the Senior final examinations, has conditions, has an opportunity to be re-examined before Commencement unless his conditions amount to half of a term's work or more. (But see Sec. III, §§ 1, 6 and 7.) In applying this rule all conditions, of whatever term, and also all entrance conditions, are counted. If he then removes all his conditions, he may be recommended to receive a degree with his class. No further opportunity is given him until the next academic year to remove his conditions and thus qualify for a degree.

### III

Examinations for the removal of conditions occur as follows:

1. For the removal of entrance conditions, opportunities are given in December during the last week before Christmas vacation, and also at the regular entrance examinations in June and September. No examination for the removal of an entrance condition is given to a Senior after the regular examination period in December. Examinations for the removal of conditions in first term Senior subjects are given during the days immediately preceding the Easter recess. These examinations may be taken only by Seniors in regular standing.

2. Every candidate for a Bachelor's degree having an entrance condition still standing at the beginning of Sophomore year, or later, will be required to take, for the

purpose of cancelling the condition, an additional course in the department concerned, under the direction of the Committee on Examinations and Standing.

3. For the removal of all conditions, examinations are held during the two weeks beginning on the second Monday preceding the opening of the University in September.

4. There are no other opportunities for the removal of a condition by examination, except at the examination period corresponding to the one when the condition was originally incurred, and then only by an arrangement made with the examiner previous to the examination period.

5. Upon application to the Faculty a student may be allowed to remove a condition in an elective course by taking and satisfying the requirements of an extra elective course of at least as many hours. But only one such extra course may be taken in any term.

6. A student who is excluded from an examination by a Department on the recommendation of a preceptor or of a laboratory instructor (see Sec. I, §§ 3 and 4), is not allowed an examination for the removal of the condition incurred, but must either repeat the course or substitute an extra course for it, as the Committee on Examinations and Standing shall direct. A Senior who, in the second term, falls under this rule may remove the condition by examination, but not until the next academic year.

7. Whenever the Committee on Examinations and Standing, acting on its own motion or on the recommendation of any department of the University, finds that a student has neglected the work of a course in which he has incurred a condition, such condition cannot be removed by examination, but only by repeating the course or by substituting an extra course for it, as the Committee on Examinations and Standing shall direct. A Senior who, in

the second term, falls under this rule may remove the condition by examination, but not until the next academic year.

#### IV

A fee of \$3 shall be charged for each examination taken for the removal of a condition.

#### STANDING

The results of the term examinations are combined with those of the work done during the term to decide the relative standing or rank of the student.

The rank in each course is determined by the instructor, who computes from the term work and examinations the marks of the class and divides the class into five groups in the order of merit.

The first group indicates very high standing and contains not more than ten per cent. of the entire class.

The second group indicates high standing and contains not more than twenty per cent. of the entire class.

The third group indicates medium standing and contains not more than thirty-five per cent. of the entire class.

The fourth group indicates low standing and contains not more than twenty-five per cent. of the entire class.

The fifth group contains the remainder of the class; it indicates very low standing.

The general rank of a student is determined by combining his group numbers in the several courses in proportion to the allotted schedule time of each. The students whose averages are highest, and above an established limit, are assigned to the first general group; those next highest to the second general group, and so on through the general groups.

A report of the standing of each student is made to his parent or guardian by the Registrar at the close of the first term and at the close of the year. The latter report gives also the standing for the whole year.



## DEGREES

A student who passes his final examinations is ordinarily recommended by the Faculty for the degree appropriate to his course, and if the recommendation is approved by the Trustees, the degree is conferred at Commencement and the diploma of the University is given.

## FINAL RANK AND GRADUATION HONORS

The final rank of members of the graduating class is computed by combining the averages for the several years of the course, except that the average for the Freshman year is omitted in those cases in which it would lower the standing of the student. The Faculty then determines what portion of the class shall be printed as the Honor List—the names of the members of each group being printed in alphabetical order. Special Honors in particular Departments are also awarded.

The first and second general groups thus determined are the Honor Groups of the graduating class, and are designated *magna cum laude* and *cum laude*, respectively.

The higher distinction of *insigni cum laude* and the highest of *summa cum laude* are reserved for very unusual excellence.

## COMMENCEMENT SPEAKERS

The student whose individual rank is highest is ordinarily awarded the Latin Salutatory by vote of the Faculty. The Valedictory is awarded with special regard to the qualifications of the student as a valedictorian as well as on the ground of scholarship.

In the award of all degrees and honors, regard is had to the conduct of the student during his course, and any student who has incurred serious discipline may be debarred from the rank to which otherwise his scholarship would have entitled him.

## HONORS

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### REGULATIONS FOR GENERAL AND SPECIAL HONORS

Honors are of two kinds, *General* and *Special*.

I. *General Honors* are awarded for general excellence in studies at the close of each academic year, according to the following provisions: At the close of the Freshman, Sophomore, and Junior years, High General Honors are given to those whose average rank for the year is within the first general group, and General Honors to those whose average rank for the year is within the second general group. At graduation High General Honors are given to those whose final average rank for the whole academic course is within the first general group, and similarly General Honors to those within the second general group. In very exceptional cases the Faculty may also bestow the further distinction of Highest Honors. No Senior who has not taken the Junior year in Princeton shall receive General Honors.

II. *Special Honors* are awarded for excellence in single leading departments of study at the close of the Freshman and Sophomore years and at graduation, according to the following provisions:

Freshmen and Sophomores who stand in the first or second group in any subject receive Special Honors in that subject.

Final Special Honors are based on the work of the Junior and Senior years, as follows: a Junior who maintains an average standing for the year not below the second group in the courses of his Department and a general standing not below the third general group, is entitled to be a

candidate for Final Special Honors, and as such may substitute for one of the elective courses in his Senior year the Pro-seminary of his Department.

Final Special Honors are of three grades: Highest Honors, High Honors, and Honors.

Highest Honors shall be awarded to the Senior who in Junior and Senior years has maintained a first group standing in each of the courses of his Department and a general standing not below the second general group.

High Honors shall be awarded to the Senior who in Junior and Senior years has maintained a first group standing in at least half of the courses of his Department, with a standing not below the second group in any of these courses, and also a general standing not below the second general group.

Honors shall be awarded to the Senior who in Junior and Senior years has maintained a standing not below the second group in each of the courses of his Department and a general standing not below the third general group.

Special Honors may be awarded to a Senior who has not taken the Junior year in Princeton.

#### HONORS COURSE IN MATHEMATICS AND PHYSICS

Candidates for Honors in Mathematics and Physics may obtain Honors by taking and satisfactorily completing certain of the courses offered by the Departments of Mathematics and Physics, according to the following plan:

##### I. THE CURRICULUM

###### *Sophomore Year*

In Sophomore year a candidate for Honors in Mathematics and Physics takes one less elective course than is required in the regular course, but shall have seven hours a week in Mathematics and Physics.

*Junior Year*

- A. Geometry
- B. Analysis
- C. Applied Mathematics (Mechanics)
- D. Theoretical Physics
- E. Experimental Physics

Each course is a three hour course. A Junior is to select three courses from the above table. Unless permitted a different choice by the Department, he must select C as one of these courses. In addition he selects an elective (3 hours) in some other Department than the Department of Mathematics and Physics.

*Senior Year*

- a. Geometry
- b. Analysis
- c. Applied Mathematics (Electricity and Magnetism)
- d. Theoretical Physics
- e. Experimental Physics

Courses A, B, C, D, E of Junior year are prerequisite to the courses a, b, c, d, e of Senior year respectively. The Senior year schedule shall consist of three courses selected from the Honors courses and of an additional elective (3 hours) outside the Departments of Mathematics and Physics. The three Honors courses may be selected from those of the courses a, b, c, d, e of which the prerequisites have previously been taken, or from those of the courses A, B, C, D, E which have not previously been taken.

2. Students who have been ranked in Freshman year in the First or Second Group in Mathematics may enter as candidates for Honors in Mathematics and Physics at the beginning of Sophomore year. Other candidates from the same class may be admitted on recommendation of the Department of Mathematics.

A Senior electing course b must elect course A if he

has not already taken it. A Senior electing course must elect course B if he has not already taken it.

Candidates may also enter the course at the beginning of Junior year, if they satisfy the Departments of Mathematics and Physics of their ability to maintain a satisfactory standing.

3. Those who satisfactorily complete the required courses will receive Honors, with such grades of distinction as are now given, in Mathematics and Physics. No Honors will be given in Mathematics and Physics except to those taking these courses.

4. A student who does not maintain a satisfactory standing in the Honors courses will be required to leave the course, and to choose a course of study under the general plan.

At the end of any year, a student may withdraw from the Honors course, and choose a course of study under the general plan.

5. Attendance on the Honors courses in Mathematics and Physics will be upon the same footing as attendance upon preceptorial conferences.

## HONORS COURSE IN THE CLASSICAL HUMANITIES

### GENERAL REGULATIONS

1. Candidates for the degree of Bachelor of Arts or Bachelor of Letters, who have completed the Sophomore year with an average standing in their classical courses not lower than the third group, may enter the Honors Course in the Classical Humanities at the beginning of Junior year as candidates for Honors, or if they do not enter the Honors Course, may in the Junior and Senior years take electives from the list offered for honors.

2. Candidates for the degree of Bachelor of Arts or

Bachelor of Letters, who have completed the Sophomore year with an average standing in their classical courses lower than the third group, are restricted in their choice of classical electives to the list indicated below.

3. Candidates for Honors in the Classical Humanities take four electives throughout the Junior and Senior years. At least two of the four electives throughout both years must be taken from the list offered for honors, and there must be one elective outside the Department of Classics. The fourth is a free elective.

Members of the Honors Course are also members of the Classical Pro-seminary throughout the Junior and Senior years.

4. Students who fail to maintain a satisfactory standing in the studies of the Honors Course will be required to leave the Honors Course and to choose their studies under the general plan.

5. At the end of Junior year a student may withdraw from the Honors Course and choose his studies under the general plan.

6. Those who satisfactorily complete the Honors Course will receive honors in the Classical Humanities with such grades of distinction as are now recognized.

7. Juniors and Seniors who were qualified at the end of Sophomore year to become members of the Honors Course in the Classical Humanities, but who have become members of other departments, may choose one or more electives out of the list offered for Honors in the Classical Humanities, and, so far as permitted by the regulations of the Faculty, may substitute the same for one or more of their own departmental electives.

Juniors and Seniors who are not entitled to be enrolled in the Honors Course are restricted in their choice of classical electives to the following list:

## JUNIOR COURSES

Beginning 1908-1909

## First Term

Aeschylus

Latin Literature

## Second Term

Sophocles

Latin Literature

## SENIOR COURSES

Beginning 1909-1910

Homer

Latin Elegiac Poets

Roman Law

Greek Lyric Poets

Virgil

For a complete detailed statement of the Junior and Senior courses, see pages 139-147.

## THE PRO-SEMINARY

The Classical Pro-seminary extends through the Junior and Senior years. It is in charge of a Director, who attends to the admission and assignment of students, conducts the sessions of one section of the Pro-seminary each week, presides at the joint sessions of the sections, and exercises general supervision over all the work of the Pro-seminary. Each section holds a weekly session of at least one hour for the presentation and discussion of work based on the reading of classical writers. The aim of the Pro-seminary is to furnish each member of it an opportunity to work for himself and by himself—under regular guidance, but not under control—on some considerable portion of his main subject of study.

The Pro-seminary constitutes the supplementary and more flexible part of the Honors Course, and the list of authors and topics detailed below, while indicating the spirit and range of the work proposed, is provisional. It

is subject to change in any term or year according to the needs and aptitudes of the students.

The following writers and topics are proposed for the Pro-seminary in 1908-1909 and 1909-1910:

#### In Philosophy

Plato: One or more selected Dialogues

Aristotle: Ethics

Cicero: *De Natura Deorum*

Cicero: *De Officiis*

Seneca: Letters and Dialogues

Ancient Science: Selections from Euclid, Archimedes, Diophantus, Hero, Ptolemy, Galen, and Hippocrates

#### In History and Politics

Herodotus: The Oriental Empires

Thucydides: The Sicilian Expedition

Aristotle: Politics

Demosthenes: On the Crown

Polybius: The Expansion of Roman Rule

Plutarch: Lives of Pericles and Julius Cæsar

Appian: Civil War

Literary Portraits of Greek Statesmen

Cæsar: Civil War

Tacitus: Annals

Suetonius: The Twelve Cæsars

Quintus Curtius: Alexander in Asia

Roman Private Law: Justinian and Gaius

Ancient Geography: Strabo

#### In Art and Literature

Pausanias: Description of Attica

Vitruvius: *De Architectura*

Pliny: Chapters on Art, N. H. xxxv

Ovid: *Metamorphoses* and *Epistles*



The Homeric Hymns

The New Comedy: Menander, Philemon, Diphilus

Theocritus: The Idyls

Aristotle: Poetics, the Theory of Poetry and the  
Fine Arts

St. Paul: Letters to the Corinthians

Epistles of Horace

Literary Criticism, Quintilian: Book x

Provision is also made for training in writing Greek and Latin through the Junior and Senior years for those who desire it.

## GENERAL ORDERS

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### TERMS AND VACATIONS

The year is divided into two terms of eighteen weeks each.

The first term of the present academic year (1908-1909) began on Wednesday, the 23rd of September, 1908, and ends on Wednesday, the 10th of February, 1909. The second term begins on Thursday, the 11th of February, 1909, and ends on Tuesday, the 15th of June, 1909, the day of the annual Commencement.

### REGULATIONS CONCERNING REGISTRATION AND THE CHOICE OF ELECTIVES

#### RULES FOR REGISTRATION

At the beginning of the academic year each undergraduate student shall report in person at the Registrar's Office before 3 P. M. on the Thursday on which the University opens, and register his full name, home address, and Princeton address.

After the Christmas vacation each undergraduate student shall report at the Registrar's Office before 10 A. M. on the Thursday on which the vacation ends, and register his name.

In every case of neglect or delay in registration three absences will be recorded against the student for each day that the registration is delayed. Serious cases will be punished by such an increase in the number of absences recorded as the Committee on Attendance may direct, by putting the student on probation, by suspension, or otherwise, as the Faculty may determine.

Any absence from a class exercise incurred in the three days before a vacation or before or after a recess shall count as equivalent to two absences incurred at any other time.

#### CHOICE OF ELECTIVES

It is very desirable to obtain from each student his choice of electives as early as possible, so that the rolls of the elective classes may be made out before the opening of the term. The students are therefore requested to report to the Registrar their choice of electives for the first term of the next academic year on or before the day on which the second term examinations begin. Changes which the student desires to make in his choice may be made by letter to the Registrar in the summer vacation. No changes will be allowed after the beginning of the first term.

The choice of electives for the second term must be reported to the Registrar on or before the third Monday in January.

The penalty for delay in reporting the full list of electives for the term shall be the record of one absence each day for each elective not reported until the list is complete; this delay to be reckoned from the registration at the beginning of the academic year or from the third Monday in January. Serious cases shall be punished more severely as the Faculty may determine. If the student enter any elective class after exercises with that class have been held, he shall be reported by the instructor as absent from those exercises.

#### REGULATION OF ATTENDANCE

##### COMMITTEE ON ATTENDANCE

1. The Committee on Attendance has charge of all matters pertaining to attendance on chapel and class exercises. It meets every Thursday, from 1.30 P. M. to 2.30 P. M. in the Registrar's Office.

## DIVISIONS OF THE YEAR

2. In the regulation of attendance, the academic year shall be divided into four quarters.

## EXCUSES

3. Requests for permission to be absent from Princeton should be presented to the Committee on Attendance, or in special cases to the Dean of the Faculty.

4. Excuses for absence must always be presented in person to the Committee on Attendance. To be accepted they must be presented (or at least left at the Registrar's Office) not later than the second meeting of the committee after the return of the student to his academic exercises.

5. Absences necessarily incurred by the University musical clubs, in connection with a tour taken in vacation by permission of the Faculty, will be excused on recommendation of the Committee on Non-athletic Organizations.

6. Absences necessarily incurred by the University athletic teams in connection with intercollegiate games will be excused on recommendation of the Committee on Outdoor Sports.

## ATTENDANCE ON CHAPEL EXERCISES

7. Every undergraduate student is required to be present twice each week at morning prayers in the chapel unless excused by the President. If a student at any time falls short of this requirement by four absences, he must during the next two weeks attend four times in addition to the four times above provided for. Failure to comply with this rule will render him liable to suspension.

8. Every undergraduate in residence at the University is required to attend at least one half of the Sunday chapel services each quarter. Failure to comply with this rule will render him liable to suspension.

### ATTENDANCE ON CLASS EXERCISES

9. Every undergraduate student is required to attend the scheduled exercises of his class. When his absences in any quarter exceed a certain number (10 for Seniors and Juniors, 8 for Sophomores, Freshmen, and Specials), he becomes liable to discipline, which in ordinary cases shall be the imposition of extra work, though other penalties may be imposed at the discretion of the committee. After the first penalty has been imposed, any further irregularity in attendance in that quarter renders the student liable to suspension.

10. If a student is irregular in his attendance on the exercises of any instructor, the instructor may impose extra work.

### PUBLIC WORSHIP

Prayers are offered in Marquand Chapel every week-day morning.

Divine service, under the superintendence of the President, is held in Marquand Chapel on Sunday at 11 o'clock A. M.

### COMMENCEMENT EXERCISES

The Annual Commencement takes place on the Tuesday preceding the last Tuesday but one in June.

The Baccalaureate address of the President to the graduating class is delivered on Sunday of Commencement week.

The Class Day exercises of the graduating class and the Lynde Prize Debate are held on Monday of Commencement week. The annual meetings of the Literary Societies, and the annual meeting of the Alumni Association of Nassau Hall, are held on Commencement Day.

## PUBLIC LECTURES

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### TRASK LECTURES

The income from \$10,000, presented by Mr. Spencer Trask of New York City, is available to secure the services of eminent lecturers to deliver public lectures before the University on subjects of special interest.

### THE ANNE M. LOOMIS RECITALS

Established in 1904 by Mrs. Jacob Newton Beam, in memory of her mother, for the promotion of musical culture in the University. The terms of Mrs. Beam's gift provide for two song recitals annually; the first to be devoted to folk songs, and the second to art songs, or song classics.

**PART VII**

**·        GROUNDS AND BUILDINGS, AND IN-  
         INSTITUTIONS CONNECTED WITH       ·  
         THE UNIVERSITY**





# GROUNDS AND BUILDINGS

## THE CAMPUS

During the first decade of its existence, the College of New Jersey owned neither grounds nor buildings. The College exercises were held either in the house of the President or in convenient rooms elsewhere.

From the beginning, however, it had been the purpose of the Trustees to erect college edifices in a central part of the State and there locate the institution permanently. It was voted, May 15, 1751, therefore, that the necessary buildings should be erected at New Brunswick, provided the citizens of that place secured to the College the sum of one thousand pounds proclamation money, two hundred acres of woodland, and ten acres of cleared land. An offer of these terms was also made by the inhabitants of Princeton at the same meeting of the Trustees, and when, in September, 1752, it was learned that New Brunswick had not complied with the required terms, the Princeton offer was formally accepted. The particular tract of ground which became the site of Nassau Hall was given by Nathaniel Fitz Randolph, and the money guarantee was furnished by Messrs. John Stockton, Thomas Leonard, and John Horner, all wealthy residents of the village.

The University campus consists roughly of three tracts of land adjoining each other. The central portion, of about two hundred and twenty-five acres, forms a quadrangle bounded by Nassau Street on the north, Washington Road on the east, the lake on the south, and the line of the Pennsylvania Railroad on the west.

The western portion, known as Springdale Farm, which

was presented to the University in 1905, consists of two hundred and twenty-one acres, lying between the Theological Seminary and Stony Brook.

The other portion, lying on the eastern side of Washington Road, was also presented to the University in 1905. It consists of ninety-three acres and includes the land lying between the line of the clubs on Prospect Avenue and the lake.

All the University buildings are heated by steam and lighted with electricity, and in addition, with the exception of those in Reunion Hall, almost all studies are provided with open fire-places. Every entry in each of the dormitories is provided with a lavatory, containing shower baths and other toilet facilities.

#### NASSAU HALL

Nassau Hall, the oldest and historically the most interesting building on college property, is picturesquely situated on the most elevated point of the front campus. At the time of its completion in the autumn of 1756, it was the largest academic building in the country. It was designed by Robert Smith, of Philadelphia, and was built of sandstone quarried in the neighborhood, and is now covered with ivy. In its three stories and basement it formerly contained, exclusive of the prayer hall or chapel, which occupied the central portion of the building, sixty rooms, which included refectory, library, and recitation rooms. It was named Nassau Hall in honor of William of Nassau, Prince of Orange, William III of England. During the Revolution it served at different times as hospital and barracks for American and British troops; here from June to November, 1783, the Continental Congress sat, and here, on the twenty-sixth of August, Washington received the thanks of Congress for his conduct of the war of the Revolution.

Remodelings of the interior, consequent upon two disastrous fires in the last century, have strikingly altered the arrangement of the building. The upper floor contains the Histological Laboratory and the Laboratory of Experimental Psychology; on the second floor may be found the Department Library of Geology and Palæontology and the office of the Curator of the E. M. Museum, while the first floor is occupied by the Palæontological Laboratory and the Geological lecture room. The large central hall on this floor has been remodeled and is now used as the Faculty Room of the University.

#### THE DEAN'S HOUSE

A house for the President of the College was erected in 1756, and until 1878, when Prospect was acquired by the Trustees, it continued to be the presidential residence. Since the creation of the office of Dean of the Faculty the house has been the official residence of the Dean.

#### THE UNIVERSITY OFFICES

In 1803 a stone building containing recitation rooms, a library, and apartments for the two literary societies of the College, the Cliosophic and the American Whig, was erected west of Nassau Hall. This is now used as the Administration Building of the University, and contains the Office of the Treasurer, the Office of the Registrar, and the Office of the Curator of Grounds and Buildings.

#### PROSPECT

Prospect, the official residence of the President of Princeton University, is one of the oldest estates in the town, although it was not acquired by the University until 1878. The mansion, erected in 1849, is beautifully situated in extensive grounds, the main entrance to which opens on McCosh Walk.

## HALSTED OBSERVATORY

This observatory is appropriated to scientific work, chiefly in the department of astronomical physics. The building, the gift of the late General N. Norris Halsted, is of stone, with a dome thirty-nine feet in diameter, the power for moving it and its sliding shutter being furnished by an electric motor and a storage battery. In it is mounted the great equatorial, of twenty-three inches aperture and thirty feet focal length, made by the Clarks, and provided with all the usual accessories, micrometric, spectroscopic, and photometric. The building also contains a clock and a chronograph, and is in electric connection with the Observatory of Instruction.

## OBSERVATORY OF INSTRUCTION

This observatory is devoted entirely to the use of students and is fully equipped for its purpose. It possesses an equatorial (by Clark) of  $9\frac{1}{2}$  inches aperture, with a full complement of spectroscopic and other accessories. It has also a 9-inch reflector; a meridian circle, with circles 2 feet in diameter, and a .4-inch telescope; two transit instruments with 3-inch telescopes, both of them arranged for use as zenith telescopes; a 3-inch prime-vertical instrument; a chronograph; two standard clocks and five subsidiary clocks, one in each observing room. There are also a number of sextants, two chronometers, and all the other auxiliary apparatus required for carrying out the work in the courses on practical astronomy, to accommodate which a room for lectures and recitations has been added.

## DICKINSON HALL

This building, the gift of John C. Green, Esq., is used for the class-room work of the Academic Department. It was erected in 1870 from the designs of George B. Post, of

New York, and is built of local stone trimmed with Connecticut limestone. It was named by Mr. Green as a memorial of Jonathan Dickinson, the first President of the College. In 1876 extensive alterations were made in the building and the exterior was much changed.

The first and second floors contain lecture rooms sixteen feet high and admirably lighted; over these, on the third floor, is the Examination Hall, eighteen feet high, and accommodating about four hundred persons.

### THE SCHOOL OF SCIENCE BUILDING

The School of Science Building was erected in 1873 and liberally equipped by John C. Green, Esq., a benefactor of the institution in many ways. It is devoted to the purposes of instruction and research in the John C. Green School of Science and contains the lecture rooms and laboratories of that department.

On the first floor are located the civil engineering lecture rooms and laboratories, and other class-rooms. On the second floor are the biological and astronomical lecture rooms, the biological laboratory, and the drawing-rooms of the department of graphics. In the graphics room is a set of duplicates of the more important O'ivier models of ruled surfaces; here also are the Björling developable surface models, a number of the Muret set, and the Shröder mathematical models. On the third floor are the collections of the Museum of Biology and the private working rooms and laboratories of the Curator.

In the basement of the building are other recitation rooms and the machine shops of the School of Science, and connected with it is the dynamo building of the School of Electrical Engineering.

## MARQUAND CHAPEL

The chapel was the gift of the late Henry G. Marquand, Esq., of New York. The cornerstone was laid in June, 1881. The building is constructed of brownstone, and is cruciform in shape. The apse contains the organ and choir stalls. The gallery over the main entrance is used in part for visitors. The faculty stalls are along the sides of the building. The mural and window decorations are noteworthy. The St. Gaudens' heroic bronze high relief of the late President McCosh, erected by the class of 1879, faces the visitor on entering; by its side are the low relief memorial tablet to Professor Joseph Henry and the bronze tablet to Professor Arnold Guyot, set in a fragment of a Swiss glacial boulder presented by the authorities of his native city, Neuchatel. On the east wall of the south transept is the memorial tablet to the Rev. James Ormsbee Murray, first Dean of Princeton University, presented to the University in November, 1901. This tablet consists of rose-colored Numidian marble, upon which is a medallion-portrait in bas-relief of white marble, surrounded by an embossed wreath. On the north wall is a bronze memorial tablet to the Faculty of the early Sixties, erected by the class of 1863.

The south and north windows, by Lathrop, are in memory of Frederick A. Marquand, of the class of 1876, and William Earl Dodge, of the class of 1879. The west window, by Tiffany, is the gift of Mrs. T. Harrison Garrett, of Baltimore, in memory of her son, Horatio W. Garrett, of the class of 1895. The Sunday and daily morning services are held in the chapel.

## ALEXANDER HALL

This building, the gift of Mrs. Charles B. Alexander, is used for Commencement and Class Day exercises, public lectures, and other university gatherings of a general char-

actor. The auditorium is arranged with sloping floor and high gallery so that an audience of fifteen hundred may be comparatively near the speaker. The rostrum and President's chair are finished in colored marbles and polychromatic mosaic. Behind the rostrum is a row of mosaic wall pictures, designed by J. A. Holzer, illustrative of the Homeric story. A large organ built by George Jardine and Son, embodying the most recent features of organ construction, stands in one of the small galleries near the rostrum.

The building is constructed of granite and brownstone, and is Romanesque in style. The front toward the south exhibits a large rose window beneath a gable roof, and between the central structure and two side towers are two fine round-arched openings which lead into a wide ambulatory encircling the building. From this ambulatory the rostrum and auditorium are reached. The two side towers and two smaller ones at the rear enclose staircases, which lead to the auditorium gallery. The building, which was designed by William A. Potter, has been decorated with sculpture, under the direction of the architect, by J. Massey Rhind. Beneath the rose window on the south front is a seated figure of Learning, on one side of which are allegorical figures of Architecture, Sculpture, Painting, Poetry, Music, and Belles Lettres; on the other, of Oratory, Theology, Law, History, Philosophy, and Ethics. There are other sculptures about the rose window and in the niches around the ambulatory.

#### ISABELLA McCOSH INFIRMARY

The Infirmary, built by alumni and friends of the University, contains all the modern arrangements of the best hospital construction. The buildings are pleasantly located on the hillside below Prospect, commanding every advantage of position as to air, outlook, and sewerage. The two buildings are isolated from one another and are con-

nected only by a long corridor. One of these buildings is devoted to the treatment of all cases not requiring special isolation. The other provides for the reception of those cases in which isolation is desirable. While the health of Princeton is exceptionally good, the occasional illness incident to so large a body of students demands accommodation suitable for its care.

The Sanitary Committee of the University has the Infirmary under its care. It is thus brought under constant and careful supervision. It is open to the reception of students on the certificate of the University Physician. As the Infirmary is without endowment, each student by the payment of a small fee secures for himself, in all cases of ordinary illness, needed care, including board, nursing, laundry, and physician's fees (everything but medicines), without charge. Where special nursing is required, an additional charge covering actual expenses will be made; and when an illness covers a period of more than one week board will be charged for after the first week at the same rate that the student would pay at his usual boarding place.

University Infirmary Regulations: 1. All patients admitted to the Infirmary will be under the care of the University Physician, and will be attended without fees. Those who desire Homeopathic treatment, however, may upon request be attended by a Homeopathic physician. 2. Exceptions will be made in special cases, in which it proves necessary to have a consultation or the services of a specialist or surgeon. 3. There will be a charge for office calls when special treatment is given in the University Physician's office, but all ordinary consultations will be free of charge.

#### THE GYMNASIUM

The Gymnasium, erected by the alumni at a cost exceeding \$280,000, is situated toward the southwest end of the



campus, adjoining the Brokaw swimming-pool, which has been architecturally combined with it. In style of architecture this building conforms to the academic Gothic of Blair, Little, and Patton Halls, and the material used in its construction is the same Germantown stone. These four buildings, harmonizing in style and general effect, form an almost unbroken western boundary to the campus, nearly half of a mile in length.

The façade of the Gymnasium comprises two full stories and a tower. The lower story contains a trophy hall, paneled in English oak, and the upper floor is devoted to committee rooms, superintendent's quarters, and other necessary apartments.

The Gymnasium proper is entered through the trophy hall. It is 166 feet long and 101 feet wide, and is almost as high as the two-story portion of the building. Its roof is supported only by the side walls, so that the interior is unobstructed. About its walls is an elevated running-track over 150 yards around, and in the basement are locker rooms, bowling alleys, and places for various forms of indoor exercise.

It contains, besides the main hall with the apparatus for physical training, hot and cold shower and plunge baths and dressing rooms. The Gymnasium is open daily from 10 A. M. to 10 P. M. throughout the University year. The director is in attendance during these hours to examine, advise, and instruct all who may desire his services.

#### THE FITZ RANDOLPH GATE-WAY

The Fitz Randolph gate-way, the gift of the late Augustus VanWickle, was erected in 1905 as a memorial of his ancestor Nathaniel Fitz Randolph, the donor of the ground on which Nassau Hall stands.

The gate-way forms the main entrance from Nassau

Street to the campus and is placed directly in front of the steps of "Old North." Facing Witherspoon Street there are four large limestone gate-posts decorated in front and back with the carvings of the arms of the University and surmounted by two eagles carved from the stone. The fence accompanying the gate-way extends along Nassau Street from the Dean's house to the Library entrance.

### McCOSH HALL

This collegiate Gothic building of Indiana limestone, erected in 1907 by friends in memory of the late President McCosh, composes one side of a contemplated quadrangle.

It is over 400 feet long and contains 18 lecture rooms and 26 rooms for preceptorial conferences. It contains one room seating 600 persons, one room seating 400, four rooms seating 75, four rooms seating 65, and six seating 50 each.

The Hall is fire-proof and is heated, ventilated and lighted by the latest methods.

### SUN-DIAL

The Sun-Dial, in the center of the court just north of McCosh Hall, was erected in 1907, the gift of Sir William Mather, M.P., of London. It is an exact replica of the Turnbull Sun-Dial at Corpus Christi College, Oxford.

### DORMITORIES

#### WEST COLLEGE

West College, built in 1836, is the oldest dormitory building still standing. It forms the western side of the central quadrangle and contains forty suites of rooms.

### REUNION HALL

Reunion Hall, erected in 1870 on the site of Professor Joseph Henry's residence, was so named to commemorate the reunion of the Old and New Schools of the Presbyterian Church. Prominent members of each party gave the funds by which it was built, and its cornerstone was laid by the officers of the General Assembly.

### WITHERSPOON HALL

Witherspoon Hall, named after Princeton's president of Revolutionary days, the signer of the Declaration of Independence, was built in 1877. It contains sixty suites. Built of gray stone with brown stone trimmings in the Victorian Gothic style, it towers above the neighboring buildings on the western section of the campus and forms the north side of the quadrangle enclosed by Edwards and Stafford Little Halls.

### EDWARDS HALL

Edwards Hall, a brownstone Gothic building, is named after President Jonathan Edwards and contains eighty-four rooms. It was erected in 1880.

### ALBERT B. DOD HALL

Albert B. Dod Hall, the gift of the late Mrs. David Brown, of Princeton, was erected in 1890 in memory of her brother, Professor Albert Baldwin Dod, of the class of 1822. It is a long, massive structure in the Italian style, of granite with limestone trimmings; while the columns flanking the entrance are of Georgia marble. The carving over the main entrance is Byzantine. The building has accommodations for one hundred students.

### DAVID BROWN HALL

David Brown Hall, another gift from Mrs. Brown, was erected in 1891 in memory of her husband. It is modeled

after a Florentine Renaissance palace, and forms a hollow square of four stories enclosing a courtyard 67 by 44 feet. The first two stories are of granite, the two upper stories Pompeian brick. A granite seat runs the length of the front façade. This dormitory, which contains fifty suites, is situated at the edge of Prospect gardens and overlooks the long slope towards the lake and the landscape beyond.

#### BLAIR HALL

Blair Hall, a Sesquicentennial gift of the late Hon. John Insley Blair, was the first representative of the style of architecture which has since been adopted for the later Princeton buildings. Blair Hall is built of white German-town stone, in the English collegiate Gothic style, and contains fifty-three suites. The square massive central tower is pierced by an archway which, with the terraces and flight of steps, forms the entrance to the campus from the southwest. An addition, with a gateway tower, has been erected by De Witt Clinton Blair, Esq., of the class of 1856.

#### LITTLE HALL

Adjoining the southern end of Blair Hall and following out that building's line and style on a slightly lower level of ground is Stafford Little Hall, a dormitory containing sixty-two suites of rooms, the gift of the late Henry Stafford Little, of the class of 1844. It was erected partly in 1899 and partly in 1902 and forms, with Blair Hall at one end and the new Gymnasium at the other, a series of architecturally harmonious buildings marking the western confines of the campus.

#### UNIVERSITY HALL

University Hall, at the junction of Nassau street and University Place, was originally planned as a hotel, but

now serves as a dormitory. The first and second floors are now used by the University Dining Halls for dining-rooms and club rooms for members of the Sophomore and Freshman classes.

### THE PYNE BUILDINGS

The two other dormitories on Nassau street are the Upper and Lower Pyne Buildings, the latter being on the corner of Nassau and Witherspoon streets. These buildings were erected in 1896 by M. Taylor Pyne, Esq., of the class of 1877, and are in the half-timbered Chester style.

### SEVENTY-NINE HALL

Seventy-nine Hall is a development of the Tudor Gothic, so extensively used at Oxford and Cambridge, and in the recent buildings at Princeton.

It is two stories in height, with a basement. The walls are of red brick, the trimmings of Indiana limestone. Toward the middle and directly opposite Prospect Avenue is a tower which forms the principal feature of an asymmetric composition. The Hall accommodates forty-eight men.

### PATTON HALL

Patton Hall, a dormitory furnishing accommodations for one hundred men, is the gift of the ten classes from 1892 to 1901, inclusive. This building, erected in 1906 from the plans of Benjamin W. Morris, Jr., is the latest addition to the graceful line of Gothic architecture marking the western confines of the campus. Built of the same material and conforming in style to Blair and Little Halls, Patton Hall has been designed as the first of an imposing series of buildings which are to enclose Brokaw Field on the east and south.

## SEVENTY-SEVEN HALL

This dormitory, now under construction, is the gift of the class of 1877. The style is English collegiate Gothic, similar in type to that of Blair Hall, the materials being the same. When completed in accordance with the present designs, it will provide accommodations for sixty men.

## SOCIETIES

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### LITERARY SOCIETIES

The Cliosophic and American Whig Societies were founded prior to the Revolution. They are conducted by the undergraduates, but also include in their organization graduates and officers of the University. Each possesses a valuable library of over 10,000 volumes. The old halls in which they were accustomed to meet, becoming too small for their accommodation, were removed about 1890, and large and handsome buildings of white marble were erected near the old sites. Both Societies pursue courses of literary exercises, award numerous prizes for orations, essays, and debates, and grant diplomas to their respective graduates.

A generous competition for University honors has always prevailed between them. On the evening before Commencement representatives of the Societies from the Senior class engage in a public debate. During Commencement week representatives from the Junior class engage in a competition in oratory. The details respecting the Lynde debate and Junior orations will be found on pages 332 and 335 respectively.

### THE PHILADELPHIAN SOCIETY

The Philadelphian Society is an institution of undergraduates for the promotion of the religious interests of the University, particularly of the members of the Society. It was founded in 1825. Devotional meetings are held every Thursday evening, and under its auspices the devotional study of the Bible and foreign missions is facilitated.

It has the exclusive use of two buildings. Murray Hall, erected in 1879 from a bequest left for the purposes of the Society by Hamilton Murray, of the class of 1872, contains an auditorium for public worship and a library. Dodge Hall, connected with Murray Hall by an ambulatory, is the gift of the late William E. Dodge, Esq., and his son, Cleveland H. Dodge, Esq., of the class of 1879, in memory of the late W. Earl Dodge, of the same class. It contains four rooms for the religious meetings of the four classes, a handsomely furnished reading room, containing current periodicals and recent fiction, committee rooms, and the apartments of the Secretary. The privileges of this building are extended to all the students of the University irrespective of their relation to the Philadelphian Society.

#### THE ST. PAUL'S SOCIETY

The St. Paul's Society, a religious organization composed of those of the undergraduates of the University who are members of the Protestant Episcopal Church, was founded in 1875. To its care is intrusted a number of mission chapels wherein members of the Society, lay readers licensed by the Bishop of New Jersey, conduct services every Sunday. Under its auspices a course of sermons is delivered annually in Trinity Church. Bible classes are held in Dodge Hall, and meetings are held in an attractive room provided for the use of the Society by Trinity Parish, in the Potter Memorial House, situated on Mercer street, adjoining Trinity Church. The annual election of officers is held on the fourth Wednesday of April.



## MUSEUMS

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### THE E. M. MUSEUM OF GEOLOGY AND ARCHÆOLOGY

This Museum, occupying the eastern wing of Nassau Hall, contains collections which are distributed in the three general departments of geology (including mineralogy), palæontology, and archæology. Their arrangement is especially adapted to the purposes of comparative study.

In the GEOLOGICAL DEPARTMENT a special room contains a unique collection of over 5,000 specimens of erratic boulders and drift materials from Switzerland. There is also a special room devoted to the typical rocks and fossils of the State of New Jersey. A collection of the typical rocks of the State of New York represents the series as described in the Geological Survey of that State.

There is in this department a large collection of minerals, chiefly crystals, now stored in the John C. Green School of Science, containing about 2,600 specimens, bequeathed to the University by the late Archibald MacMartin of New York. The perfection of the specimens, and the number of localities represented in each family, make this collection one of special value.

PALÆONTOLOGICAL DEPARTMENT.—The eastern hall contains the main collection; on the platform are the skeletons of a Mastodon, an Irish Deer, a Cave Bear, and some of the extinct birds of New Zealand; also the skulls of *Uintatherium* and a remarkably complete skeleton of *Cervalces*. There are mounted casts of the gigantic reptiles and mammals of the secondary, tertiary, and quaternary ages. Surrounding the room is a very perfect collection of vertebrate and invertebrate fossils from Europe and Amer-

ica, illustrating the principal organic forms of all the geological epochs. The typical fossils selected agree, as far as possible, with those mentioned in Dana's *Geology*, as characteristic of different geological periods. Included in this series are the fine Eocene and Miocene fossils, many of which are type specimens, procured in the West by the various Princeton collecting parties. There is also a series of fossil insects and plants from Colorado, most of which are also types. Altogether the number of fossils, not counting duplicates, is 15,000.

ARCHÆOLOGICAL DEPARTMENT.—The collections in this department are stored at present in the south stack of the University Library for lack of proper exhibition room.

America is represented by the pottery and human remains of the mound builders, by several hundred specimens of Mexican and Peruvian pottery, and by a number of recent Indian relics. The interesting ethnological collection of objects, chiefly from Alaska and New Mexico, which Dr. Sheldon Jackson presented to the Theological Seminary of Princeton, has been transferred to this Museum by the Trustees of that institution, with the consent of the donor. There is also a series of models of the cliff-dwellings and pueblos of the Southwest, executed under the direction of Dr. Hayden.

Below the eastern hall are the lecture and working rooms.

#### THE MUSEUM OF BIOLOGY

The biological collections have been chiefly made from the endowment fund of the John C. Green School of Science. There have also been many smaller donations to the Museum from time to time. The collections are placed in the large upper hall of the School of Science building, and are at present especially rich in osteological specimens. On the same floor are the laboratory and working rooms. The collection of vertebrates includes a large number of

mounted and disarticulated skeletons of mammals, reptiles, birds, and fishes. Among the invertebrates are a series of ascidians, echinoderms, molluscs, crustaceans, insects, worms, corals, sponges, and microscopic preparations of small forms. Students may apply to the Curator for access to the catalogue and cases containing the skeletons.

The Herbarium is on the second floor of the School of Science building, and is arranged as a museum of the botanical collections, also as a working laboratory for students. The plants are classified according to the *Pflanzen-familien* of Engler and Prantl, and include specimens from the different sections of the United States, and from South America, Europe, and Australia. There are extra specimens for laboratory use and dissecting, together with compound microscopes, reagents, anatomical instruments, section cutters, models, diagrams, and books of reference.

DEPARTMENT OF ORNITHOLOGY.—The ornithological collections of the University form a department of the Museum of Biology. Starting with a representative local collection of the birds of New Jersey, which are mounted and on exhibition in the halls of the Museum, these are supplemented in the laboratories by the following groups of unmounted birds, which show the relations of the local collection to the avifauna of the world at large: A North American collection, a European collection, an Australian collection, an Indo-Asian collection, a South American collection. There are in all some sixteen thousand individuals.

The South American collection, for which the Hatcher Expeditions to Patagonia are largely responsible, owing to the interest of Mr. John W. Garrett, '95, of Baltimore, was materially augmented by Professor William B. Scott, during his stay in Argentina. Very advantageous exchanges with the Museo La Plata were made. Through the liberality of friends of the University, valuable ornitho-

logical material was purchased from S. Pozzi, Esq., of La Plata. These collections are especially valuable in view of the extensive work assumed by the University on the fauna of Patagonia. The additions to the Department of Ornithology from this source alone aggregate some eight hundred bird skins.

The collections are further supplemented by some four thousand sets of eggs, most of them in nests, as well as much alcoholic material and many skeletons.

The department received in exchange during the year 1900 from the British Museum of Natural History some two thousand birds. These represent parts of the avifauna of Europe, India, and Asia, and aid materially in rounding out the existing collections. Many minor gifts have been received from alumni, particularly representatives of game birds from many localities in North America.

All this material affords facilities for special study in individual variation, geographical distribution, migration, and the like. Graduate students will find special facilities for work in the laboratories connected with this department.

#### THE MORPHOLOGICAL MUSEUM

The Morphological Museum, founded in 1897, is located in the Class of 1877 Biological Laboratory. At present the Museum contains about one thousand mounted preparations, illustrating the comparative anatomy of vertebrates. The collection, which consists mostly of dissections and corrosions, is constantly being added to at the rate of about three hundred specimens a year, all of which are prepared in the laboratory by the Curator and his assistants.

#### THE MUSEUM OF HISTORIC ART

The upper story of the Museum contains a library of books and photographs of classical and mediæval archæ-

ology, collections to illustrate the history and processes of the graphic arts, reproductions of Greek and Roman coins and gems, specimens of Greek and Roman marble, a collection of bronze medals and casts of ivories from the Roman to the Gothic period, a series of casts from the Arch of Trajan at Beneventum, and a small collection of paintings. One room is devoted to exhibiting the results of the Princeton Expedition to Syria. Here, besides casts of sculpture and inscriptions, are many examples of Syrian workmanship in stone, terra-cotta, glass, bronze, and gold.

In the central story the Trumbull-Prime collection has been rearranged and new cases have been added. The purpose of this collection is to illustrate the history of pottery and porcelain. Egypt is represented by sepulchral figurines, beads, and amulets; Phœnicia by numerous Cypriote vases; Greece, Etruria, and Southern Italy by Corinthian aryballoi and fine examples of larger vases of black-figured and red-figured types. The Orient is further illustrated by specimens from Persia, China, and Japan; South America by Peruvian pottery. The collection is richest in examples of European wares, to which England, France, Germany, and Holland are the chief contributors, but Italy, Russia, Sweden, and Switzerland are also represented. The small room on this story contains the Livingston collection of pottery. This collection is noteworthy for the illustrative material it furnishes for the early history of our country.

The staircase and basement are occupied by a carefully selected collection of casts of ancient and mediæval sculpture, presented by the class of 1881 at its decennial. This collection was formed to illustrate the history of ancient sculpture in Egypt, Babylon and Assyria, Persia, Greece and Rome, and of mediæval sculpture in Italy, France, and Germany. There has been recently added from the same fund a collection of casts of Renaissance sculpture.

The Museum is open to visitors from 8 A. M. to 6 P. M.

## LABORATORIES AND APPARATUS

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### PSYCHOLOGICAL LABORATORY

The laboratory for experimental psychology was founded and equipped for work at the beginning of the academic year 1893-94. It occupies a suite of rooms on the third floor of the west wing of Nassau Hall, on the south side, opposite the histological laboratory. It comprises five rooms, *i.e.*, a dark-room, three rooms for research work, and a room fitted up for demonstrations and lectures. The equipment consists primarily of the standard pieces of apparatus for demonstrations and research, together with illustrative models and charts, and is added to as the development of the department in special directions makes it necessary. Professor Allan Marquand has presented to the laboratory both models of his well-known "logical machine" and a number of volumes. A select library of reference books and bound psychological periodicals is connected with the laboratory. Attention may be called to the very complete list of current journals in psychology, philosophy, and neurology which are on file in this library. Researches from the laboratory are published in the *Princeton Contributions to Psychology*.

### THE PALMER PHYSICAL LABORATORY

The Palmer Physical Laboratory, erected and equipped by the generosity of S. S. Palmer, Esq., of Princeton, is devoted to the use of the Departments of Physics and Electrical Engineering. It was completed in 1908.

It is a two story and basement building of brick and Indiana limestone and is academic Gothic in style. It is

constructed with very heavy walls, and with floors of steel, tiling and concrete, is thoroughly fireproof and possesses the greatest stability. It is built on a southern slope around three sides of an open court, thus assuring an abundance of light and air for the basement as well as for the two upper stories.

The building is heated by steam, with thermostatic control, is lighted by electricity and is arranged for the artificial ventilation of any, or all, of its parts.

It contains two large lecture rooms, one for 325 persons and the other for 200, three smaller lecture rooms for sixty-five persons each, seven recitation rooms, each for twenty-five persons, four large laboratories and a number of smaller ones, rooms for the professors, for the library, the museum and for research students. One large and two small machine shops are provided, rooms are set aside and equipped for the storage batteries, electrical charging machinery, and switchboards; and a chemical laboratory, a Roentgen ray room, constant temperature rooms and a grating room have been especially constructed, in addition to store rooms, balance rooms and photographic and photometric dark rooms. The three floors give a combined area of approximately two acres for the work of instruction and research.

The equipment will include four storage batteries of sixty cells each, the necessary electrical charging machinery, a very extensive and flexible system of wiring for both direct and alternating currents, a refrigeration plant, a liquid air and hydrogen plant, a vacuum and pressure system leading to all parts of the building, a large machine shop with a full outfit of hand and machine tools and an electric elevator running from basement to attic. A large equipment of apparatus is provided for lecture purposes, for laboratory work and for research.

Through the generosity of David B. Jones, Esq., of the

class of 1876, and of Thomas D. Jones, Esq., of the class of 1876, a fund of \$200,000 has been given for endowment, the income of which is to be used by the two departments occupying the Laboratory, for the purchasing of supplies, for the construction of apparatus and for the satisfaction of the general scientific needs of the two departments.

#### BUILDINGS AND APPARATUS OF THE SCHOOL OF ELECTRICAL ENGINEERING

Ample accommodations for recitations, lectures and experimental work are provided in the Palmer Physical Laboratory. All of the equipment of that building and all of the apparatus of the Department of Physics are available for the use of the School of Electrical Engineering.

The magnetic observatory is a brick building without iron in its construction, situated on McCosh Walk.

The laboratory is in the basement, where permanent piers, for the installation of instruments, are provided.

Among the instruments in the laboratory which deserve mention are a large physical balance, Thomson's quadrant and other forms of electrometers, specially constructed galvanometers by Edelmann, Hartmann, Nalder Brothers, and Elliott, Thomson's current balances, two large resistance boxes adjusted by Anthony, Post-office boxes, megohm box standard condenser, standards of induction and of resistance. Besides these there is a full outfit of galvanometers, voltmeters, ammeters, and all other instruments needed in technical work or in exact investigation.

The dynamo building is connected with the School of Science building. The motive power for the machinery is furnished by a sixty horse-power boiler and a Ball engine. The dynamo plant consists of a Westinghouse alternating



current generator with a full set of transformers, a Westinghouse polyphase generator, a Westinghouse rotary converter, Mather, Edison, Brush arc, Eickemeyer, and Gramme generators, a machine constructed in the shop of the School of Science, Brush, Eickemeyer, and other motors. With these machines is a complete outfit of accessories, and a large rheostat of German silver used in testing. Arc and incandescent lamps are so arranged that the various systems of distribution may be studied.

The dynamo building is connected with the magnetic observatory by heavy copper wires, and by underground cables, so that the instruments of the magnetic observatory are available for experimental work with the dynamos. Four sets of storage batteries are also connected with the plant.

In addition to the above-described equipment, the plant of the University Power Company, for heating and lighting the University buildings, is available for purposes of experimental study in which the quantities to be measured are of the order of those met with in commercial applications. Their plant contains six 250 horse-power boilers, for power and steam heating; two 200 K. W. and one 100 K. W. direct connected alternating current generators and one 300 K. W. alternating current generator, direct driven by a Curtis steam turbine; one motor-driven exciter and one steam turbine-driven exciter; the station switch-board and a special experimental switch-board. The entire equipment of generators, transformers, motors, etc., is available for the use of the School.

#### CHEMICAL LABORATORIES

All courses in chemistry and in mineralogy are conducted in the chemical building, which is of fireproof construction, well lighted and ventilated.

The top floor of the building is mainly devoted to laboratories for students in the various courses for general, analytical, and organic chemistry, with private laboratories, weighing room, and storerooms. Each student has a separate desk, provided with water, gas, suction for filtering, and sink.

On the second floor are two large lecture-rooms, cabinets for specimens and lecture apparatus, and several private laboratories.

In the basement, in addition to storerooms and several private laboratories, are a mineral cabinet, a furnace room, and laboratories for blowpipe analysis, for assaying, and for physical chemistry.

#### MINERALOGICAL COLLECTIONS OF THE SCHOOL OF SCIENCE

There are two cabinets of minerals. The principal one contains over five thousand specimens, embracing the common mineral species and many of the rarer ones. Smaller cabinets, with labeled and unlabeled minerals, are provided for practice with the classes.

There is also a collection of specimens of typical rocks, together with a large number of Fuess's rock sections, as well as sections from other sources, for the study of lithology.

The department is provided also with section cutters, grinding lathes, and other appliances for the special study of minerals and rocks; including a complete Groth's polarizing apparatus with goniometer, a large Babinet goniometer, Norremberg's polarizing apparatus, petrographical microscopes, and minor apparatus.

#### HISTOLOGICAL LABORATORY

This laboratory, consisting of five rooms, is situated on the upper floor of the west wing of Nassau Hall. The

rooms extend continuously from the western entrance to the E. M. Museum.

The first is a large room fitted up as a lecture-laboratory and has working places for twenty-eight men in undergraduate work. A very fine Zeiss projection outfit of modern construction forms part of the equipment of this room. It was presented to the laboratory by several members of the class of 1894 as a memorial to their classmate, John Miller Kennedy.

The next room, somewhat smaller, is for the advanced work in histology and for teaching histological technic. Here a class of twelve men can learn how to cut and mount sections of the tissues for study under the microscope. The centrifuge and water baths, as well as other ordinary apparatus, are operated in this room.

The assistant's room opens out of this last apartment and is used to prepare all tissues and slides for the several collections. The class collections of slides are arranged on shelves in this room as well as the collection of tissues in alcohol.

East of this room come two others, the first a well-lighted study for research men and fellows and the second the instructor's study and office. In the fellows' room are tables for two men and a well-equipped dark room opening from its rear end. The instructor's room contains the collection of over 5,000 bits of animal and vegetable tissues stored in paraffin blocks. The large collection of tissues on slides, some 30,000 specimens in all of well-selected types, illustrating all the tissues of the animal body in their various forms, is also stored here. These specimens are thin sections of the tissues, each stained and mounted in Canada balsam between two thin slips of glass for study under the microscope.

The laboratory is well equipped with microscopes made by Carl Zeiss & Co., of Jena, Germany, and the Bausch & Lomb Optical Co., of Rochester, N. Y.

## CLASS OF 1877 BIOLOGICAL LABORATORY

This building, situated at the east end of Dickinson Hall, was presented to the University by the Class of 1877 at its decennial reunion. It is designed for the advanced courses in comparative anatomy and embryology. The main morphological laboratory, upon the second floor, is equipped for the instruction of undergraduates. This room has been fitted up with exhibition cases which, at present, contain about one thousand two hundred preparations illustrating the comparative anatomy of vertebrates. New preparations are constantly being added to the collection through the efforts of a skillful preparator.

The first floor comprises the embryological laboratory, intended for the use of University students engaged in research. The basement is designed for aquaria. The laboratory is open to students during the day from 8 A. M. to 5 P. M.

## PALÆONTOLOGICAL LABORATORY

This laboratory has been fitted up in Nassau Hall to provide for practical instruction in the courses in palæontology. Each student has a table with drawers, etc., for his own use, where the study of fossil forms can be conveniently carried on. The very extensive collections of the geological museum furnish ample material for the general course in palæontology and stratigraphy, as well as for the purposes of research. A series of diagrams, maps, and models is provided, as are also microscopes and prepared slides for the examination of the minute structure of various extinct forms, both animal and vegetable.

For advanced students engaged in original investigations there are private rooms available.

## CIVIL ENGINEERING LABORATORY AND APPARATUS

Through the generosity of the trustees of the John C. Green estate a separate building has been provided and equipped with suitable apparatus for training the students in civil engineering in the laboratory work of engineers. The building covers an area of about 7,000 square feet and is divided into five commodious rooms, in which the students are taught, in connection with and supplementing the corresponding theoretical studies, to make tests of structural forms and materials; to conduct trials of steam, gas, and other motors; to deduce from actual experiment laws and coefficients of flow through various kinds of orifices, weirs, and conduits; and to make reliable tests of cements, mortars, and concretes.

The additional apparatus has been carefully chosen with a view to its value as a means of cultivating the perceptive faculties of the student, of stimulating originality of thought, and of making clear many points in the later studies of the course which otherwise might remain ill-defined because imperfectly conceived. But its selection has also been influenced by the expectation that some of it will be employed in original investigation along lines of engineering knowledge as yet only partially developed.

There have been added to the previous laboratory equipment of the Department four new electrically driven testing machines, of different capacities, with all necessary accessories, the largest having a capacity of 200,000 pounds; a steam boiler of about seventy horse-power to furnish power and the means of conducting evaporative tests; a steam engine of fifty horse-power, provided with a dynamometer, and other appliances for testing power and efficiency; and an Otto gas engine of about six horse-power. The cement room is now provided with three standard cement testers, made by different makers of established reputation, and is amply equipped with other

paraphernalia of a cement testing establishment. The outfit of the hydraulic room is very complete in provisions for the control of pressures and volumes, and is unique in its use of large quantities of water in a very economic manner.

The illustrative apparatus of the Department covers a wide field, and comprises rail sections and joints, specimens of the products of iron and steel mills and of other building materials, models of water wheels, of trestles, of the details of joints of steel bridges and roofs, and of vaults and arches. A collection of lantern slides, especially selected for use in the classroom, has been provided, and includes a large number of views, in detail, of the New York and Brooklyn Roebling suspension bridge at different stages of its erection, as well as similar views of other structures. A 25-foot iron working model of a single-track railway bridge, with a complete outfit of falsework and other appliances for its erection, designed especially for this institution, is employed to illustrate by actual trial the modes of procedure in problems of erection.

The instruments provided for the course in geodesy represent the work of several instrument makers of high repute. They include a 12-inch geodetic transit; a large plane-table with telescopic alidade and a telemeter; engineer's, mining, and solar transits; wye and dumpy levels; surveyor's compasses; mercurial and aneroid barometers; sextants; heliotropes; numerous forms of standard linear measures; and a large assortment of reconnoitering instruments.

## ATHLETIC GROUNDS AND BUILDINGS

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### THE UNIVERSITY FIELD

This field, which is large enough for two football games to be played simultaneously, is the scene of all University athletic contests and games held in Princeton. The entrance gateway is the gift of Ferris S. Thompson, Esq., of the class of '88. Besides the baseball ground and football field, there are a 220-yard straightaway and a quarter-mile cinder track and the following buildings: (1) The University Athletic Clubhouse, the gift of Professor Henry F. Osborn, class of 1877, containing training quarters, dining-room, parlor, bedrooms, baths, etc., and a trophy room, which is open to visitors. (2) The Cage for indoor winter practice, a well-lighted brick structure with a clear floor space of 60 x 140 feet. (3) The Field House, containing dressing-rooms, lockers, and baths for the University and visiting teams. (4) The Grand Stand, the gift of Mrs. John J. McCook, of New York. The clock in the peak of the roof is the gift of the Glee Club of 1890. (5) The Open Stands, the result of alumni subscriptions.

### THE BROKAW FIELD

This field was provided by the alumni for the benefit of undergraduates who are not members of the University teams. On a terrace are the University Tennis Courts, and above them is the Brokaw Memorial Gateway and Building, erected in 1892 by I. V. Brokaw, Esq., of New York, in memory of his son, Frederick Brokaw, of the class of 1892, who lost his life at Elberon, N. J., in 1891, while attempting to rescue a drowning girl. The building contains dressing-

rooms, shower-baths, and lockers for several hundred men. A wing contains a porcelain swimming pool 100 feet long by 25 feet wide.

#### CLASS OF 1886 MEMORIAL BUILDING

This building, recently presented to the University by the Class of 1886, overlooks the Princeton golf course and commands an extensive view of the adjacent country.

The building contains ample provision in the way of bath and locker rooms, reception rooms, etc., designed for the use of members of the Princeton Golf Club, with dormitory and kitchen facilities, to be devoted to the use of the members of the Class of 1886.

#### THE PRINCETON GOLF CLUB

Students of the University are eligible to membership in the Princeton Golf Club, whose eighteen-hole golf course covers 225 acres and is situated on University property.



## PART VIII

EXPENSES, ALLOTMENT OF ROOMS,  
UNIVERSITY BILLS, PRIZES, SCHOL-  
ARSHIPS, REMISSION OF TUI-  
TION, AND CHARITABLE  
FUNDS



## EXPENSES

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* Board, 36 weeks.....	\$4.00 to \$8.00 per week.
Washing, 36 weeks.....	.60 cents per week.
Tuition and Public Room fee, Academic.....	\$150.00 per annum.
Tuition and Public Room fee, School of Science .....	\$160.00 per annum.
Laboratory fee, extra for each chemical course involving laboratory work, if taken by an Academic student.....	\$5.00 per term.
Laboratory fee, extra for course in Freshman Physics .....	\$5.00 per term.
Room rent in dormitories (according to location of room).....	\$18.00 to \$175.00 per annum.
Heat, fixed charge (according to location of room).....	\$10.00 to \$28.00 per annum.
Light, fixed charge (according to location of room).....	\$12.00 to \$28.00 per annum.
Infirmary fee .....	\$7.00 per annum.
Gymnasium and Swimming Pool fee .....	\$7.00 per annum.
Examination fee, payable at time of taking entrance examinations (see a previous page).....	\$5.00
Graduation fee, payable second term, Senior year.....	\$12.00

*Apparatus Deposits.*—Students pursuing laboratory courses are required to make deposits to pay for apparatus injured or destroyed. At the end of the term any excess in favor of the student is placed to his credit on the bill for the next term. The deposits in the courses are: Physics—Freshmen, \$5; Chemistry—Sophomores and Juniors, \$10; Seniors, \$15. In Geodesy—Freshmen, second term, \$10; Sophomores, second term, \$15; Juniors, both terms, \$10; Seniors, first term, \$5.

Students taking any of the courses in Graphics will require a drafting outfit costing from \$18 to \$25.

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\*Freshmen and Sophomores are required to board at University Dining Halls: rate of board for present year, \$5.50 per week.

## ESTIMATE OF ANNUAL EXPENSES

## ACADEMIC DEPARTMENT

Minimum, medium, and maximum estimates of the necessary expenses for one year of a student occupying an unfurnished room in a dormitory have been prepared as follows:

	<i>Min.</i>	<i>Medium</i>	<i>Max.</i>
* Board, 36 weeks, at \$4.00 to \$8.00.....	\$144.00	\$180.00	\$288.00
Washing, 36 weeks, at 60 cents per week,	21.60	21.60	21.60
Tuition and Public Room fees.....	150.00	150.00	150.00
Infirmary fee.....	7.00	7.00	7.00
Gymnasium and Swimming Pool fee....	7.00	7.00	7.00
Room rent.....	30.00	90.00	200.00
Heat (per room).....	10.00	19.00	28.00
Light (per room).....	12.00	20.00	28.00

Books, hall dues, clothes, furnishings for rooms, incidentals, and traveling and vacation expenses have not been included in these estimates.

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\* Freshmen and Sophomores are required to board at the University Dining Halls: rate of board for present year, \$5.50 per week.

## RULES GOVERNING THE ALLOTMENT AND RENTAL OF ROOMS

(DECEMBER, 1901)

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1. Rooms shall be assigned for occupation during the following academic year between the 15th of May and the 1st of June of each year.

2. This assignment shall embrace:

a. All rooms occupied by students whose connection with the University will terminate at the end of the academic year.

b. The rooms of all Seniors, whether with room-mate or not (unless the room may be retained by a graduate or for a brother, as elsewhere provided in the rules).

c. All rooms for which the lease has not been properly renewed.

3. An allotment may also take place at the close of the first term of each academic year for the purpose of assigning such rooms as may then fall vacant.

4. a. The assignment of rooms shall in all cases not herein specially excepted take place in such a manner that specific rooms shall be assigned by lot.

b. The rooms to be assigned shall be classified according to the amount of their rental in seven groups as follows:

(1) The first group shall embrace rooms whose rental is from \$18 to \$36, inclusive.

(2) The second group shall embrace rooms whose rental is from \$40 to \$66, inclusive.

(3) The third group shall embrace rooms whose rental is from \$70 to \$100, inclusive.

(4) The fourth group shall embrace rooms whose rental is from \$105 to \$140, inclusive.

(5) The fifth group shall embrace rooms whose rental is from \$150 to \$180, inclusive.

(6) The sixth group shall embrace rooms whose rental is from \$200 to \$240, inclusive.

(7) The seventh group shall embrace rooms whose rental is from \$250 to \$300, inclusive.

c. The applicants for rooms shall be divided into corresponding groups, each applicant being required to inform the Treasurer in writing before the 10th of May, or the 20th of January, as the case may be, both of his intention to enter the drawing and of the group in which he wishes to be placed.

*Every applicant for a room shall agree beforehand, and shall be required, to take the room which may be assigned to him by lot in the group in which he has made application.*

d. Each drawing shall begin with the first group and proceed from that group through the other groups successively in the order given above. Any applicant who does not obtain a room in the group to which he first asked to be assigned may be allowed to draw in any higher group.

e. If there be any rooms remaining unassigned after a drawing, such rooms may be assigned by subsequent allotment, at such time before the end of the year or of the term as the Treasurer may appoint; such supplementary allotment to be made under the same rules as the principal allotment, with this exception, that the rooms disposed of by means of it may be classified as above or not, at the discretion of the Treasurer.

f (a). Priority in the drawing shall be determined by the length of time the applicants have been members of the University. The first drawing shall include the names of all applicants who have been members of the University for more than one year. A second drawing shall include the

names of all applicants who have been members of the University one year or less.

*f (b).* If the application for a double room shall be signed by students who have been members of the University different lengths of time, it shall be classified, and placed in the drawing in which the student who has been a member of the University the shortest length of time would be placed.

*g.* New students shall have choice of any rooms remaining vacant at the time of their entering upon residence, in the order of their application after undergoing the entrance examinations for full standing, upon condition of immediately signing the lease required in all cases. [See Rule 5a.]

*h.* Double rooms shall be separately classified and allotted in accordance with the above regulations. Only such suites as consist of a study and two bedrooms shall be considered double rooms within the meaning of this clause. No double room shall be assigned to a single individual, nor shall it be within the privilege of any single individual to draw for a double room. Every application for a double room must give the names of two persons who intend to occupy the room together and who undertake to be jointly responsible for the rent of the same.

*i.* Whenever for any reason one of the occupants of a double room is permitted or obliged to cancel his room lease, the remaining occupant must vacate the room at the end of the current academic term, unless he agrees to pay the whole rent, or provide a room-mate who shall join him in signing a new lease for the remainder of the academic year.

*5. a.* The tenure and liabilities of those to whom rooms are assigned under these rules shall be the tenure and liabilities expressed in the following lease, which must be signed in the case of each room allotted by the student who

is to occupy it, and by his parent or guardian. This lease must be signed and delivered to the Treasurer in each case within ten days of the allotment, except in the case of new students, provided for under Rule 4g.

This agreement, made the            day of            , 190 , between the Trustees of Princeton University and of            , witnesseth, that the said Trustees of Princeton University do hereby lease unto the said            Room No.            in the            Entry of            , to hold for the academic year of            , paying therefor during the said term unto the said Trustees of Princeton University the yearly rent of \$            in two equal payments, to be made the one within the first four weeks of the first term of the academic year, the other within the first four weeks of the second term of the academic year.

And the said            covenants to pay the said rent in the manner and at the times aforesaid, and to deliver up the said premises to the said Trustees of Princeton University or its legal representative at the end of said term in as good condition as the same now are or may be put into by the said Trustees of Princeton University, reasonable use and wear and tear thereof, and fire and other casualty excepted. The said lessee also covenants that he will not do or suffer to be done any damage in the leased premises, and that, if any damage beyond reasonable wear and tear be done, he will cause the same to be made good as soon as possible at his own expense, employing for that purpose the proper University workmen, and paying the cost thereof at once to the University Treasurer, it being understood that the damage here meant includes the breakage of glass and locks, whether by accident or design. The said lessee further covenants that he will not sublet the same or any part thereof, nor permit any other person or persons to occupy the same or any part thereof, nor make nor suffer to be made any alteration therein without the consent of the



said Trustees of Princeton University for that purpose in writing first had and obtained. And the said lessee further covenants that the said Trustees of Princeton University through their authorized representative may enter the said premises for the purpose of viewing or making improvements therein at any reasonable times in the daytime, or at any other time for the legitimate purposes of University discipline. This lease is made on the express condition that it may be terminated by said Trustees through their representative.

b. Any occupant of a college room may retain his room until the end of his undergraduate or graduate course, provided he annually notify the Treasurer of his intention of retaining it and sign a new lease before the 1st of May, otherwise his room shall be considered vacant and shall be included in the next allotment. In case an occupant of a double room be left without a room-mate at the end of the academic year, he may renew his lease upon condition of naming another student of the University who will become joint lessee with him for the following year, unless the room-mate who leaves is a Senior or a fourth year special. It shall also be the privilege of any occupant of a college room to renew his lease at the end of his own tenure in the name of his brother, when that brother is to enter the University immediately.

c. The right to occupy a room is not transferable and terminates with the expiration of the lease. Any attempt on the part of the occupant of a college room to sell or transfer, directly or indirectly, his right of occupancy shall be deemed a fraudulent transaction. The penalty for violating this rule shall be forfeiture of the rooms by the new lessee.

d. The occupant of a college room shall deposit with the Curator the sum of 25 cents for each key to his room that may be furnished him by the University; and all

amounts paid under this clause shall be refunded upon return of the key or keys furnished.

6. The Committee on Grounds and Buildings shall engage a competent appraiser, not otherwise connected with the University, to determine the value of all beds (bedsteads, mattresses, and springs), chairs, tables, couches (including window seats and divans), washstands, crockery, bureaus, desks, carpets, and book-cases for sale in a room to be vacated. His decision shall be final in every appraisal. Under the general direction of the Treasurer, it shall be the duty of the appraiser to estimate separately the value of each of the above articles so offered for sale and to deposit with the Treasurer a complete list for each room of the articles appraised, with their several values affixed. The owner shall not be permitted, under any pretext, to sell to his successor any article for more than the appraised valuation. If he does not wish to sell at so low a price, then he must remove his property from the room. If his successor does not wish to purchase at appraised valuation, he may order that the property be removed from the room. All payments for appraised furniture in a room vacated or transferred must be made through the Treasurer's office, but nothing in the rules shall be construed to create a liability on the part of the University for damaged or missing articles. *All articles not in the above list* must be removed from the room within two weeks after such room is vacated.

7. No exchange of rooms shall be allowed unless formally sanctioned in writing by the Treasurer; and then only upon terms explicitly stated in a written application signed by both parties to the proposed exchange, and not in contravention of the spirit of these rules. Such applications shall be kept on file in the Treasurer's office.

8. When rooms are vacated during a term the rent shall be paid until the end of the term. An occupant of a

college room who expects to be absent on leave for a term may be released from the obligations of his lease, provided he notify the Treasurer before the beginning of the term during which he expects to be absent, and give up the room; but no abatement or drawback of room rent shall be allowed for any period less than a term, except in special cases to be stated in writing, and by permission of the Treasurer.

9. The Faculty of the University is directed to suspend or expel every student that may be found guilty of breaking or evading these rules or of injuring or interfering with the person or property of his successor in a room; or of aiding or abetting another in such transgression, evasion, injury, or interference. The Faculty and all its officers are instructed to take the utmost pains, by ordinary or extraordinary means, to discover such offenders and prevent such offences.

The Faculty is further instructed to report, with the evidence discovered, the name of any graduate or outsider that may be guilty of such offences to the Committee on Grounds and Buildings; and said Committee is authorized and directed to procure legal counsel and when the evidence seems to justify it to take appropriate legal proceedings against any and every offender before a court of law.

## UNIVERSITY BILLS

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All University expenses, including board, must be paid in advance to the Treasurer of the University.

Students may take their meals at any house approved by the Curator; with the exception of Freshmen and Sophomores, all of whom are required to board at the University Dining Halls.

Students are required to call at the Treasurer's office in the course of the first ten days of each term, and to give information as to their place of boarding, etc., so that their bills can be made out. All bills must be paid within the first four weeks of the term. Failure to comply with this rule will deprive the student of the privileges of the University until payment is made, unless excused by special vote of the Faculty.

When a student enters the University before the middle of the term, he shall pay in full the usual charges for that term, with the exception of the charges for board; if he enter after the middle of the term, he shall pay one-half. For board he shall pay in proportion to the time.

When a student leaves the University, whether voluntarily or by dismissal, before the middle of any term, one-half of the charges for tuition and public rooms for that term shall be refunded. But in the case of temporary absence and subsequent return, although the absence be for more than half a term, no such rebate shall be granted.

When a student is dismissed from the University for any cause, the advance deposit for board, heat, and light, beyond the time of dismissal, shall be refunded to his parent or guardian.

When at the end of the first term the amount of the advance deposit proves to be in excess of the sum required to defray the board or room bills of any student, the excess shall be credited on his bill for the next term. At the end of the academic year the amounts overpaid by the members of the *graduating class* for board, room rent, heat, and light shall be refunded by the Treasurer to the student's parent or guardian. The parent or guardian of *every undergraduate* will be advised of the amount of excess to the credit of his son or ward, and such amount will be *carried over to his credit on the bill of the first term of the following year*. In case of withdrawal or dismissal from the University of any undergraduate at the end of the college year, such excess will be refunded by the Treasurer to the parent or guardian, when informed by the Clerk of the Faculty that such undergraduate has been withdrawn or dismissed from the University.

## PRIZES

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### ALEXANDER GUTHRIE McCOSH PRIZE

The interest of \$1,500 will be given annually to that member of the Senior class who shall write the best essay in philosophy, including psychology, logic, metaphysics, and the history of philosophy. The subject of the essay for the present year will be, Pragmatism. It must be handed in on or before June 1.

### LYNDE DEBATE PRIZES

Three prizes—the income of \$5,000, contributed by Charles R. Lynde, Esq.,—will be awarded by a committee, appointed by the Faculty, to the three successful competitors in a debate on the Monday evening preceding Commencement. The competitors are six members of the Senior class—representatives of the Literary Societies—selected by committees appointed by the Societies respectively from their own members in the Faculty.

### BAIRD PRIZES

Through the liberality of Charles O. Baird, Esq., the following prizes, representing the income of \$6,000, will be given to those who excel in the oratorical exercises of the Senior class, viz.: The Baird Prize of \$100 to the best speaker of those who have ranked among the first six writers in any two of the three departments of English literature, rhetoric, and oratory; a prize for oratory of \$50 to the best speaker, exclusive of the Baird Prizeman, of those who, in the same departments, have ranked among the first twelve writers; a prize for delivery of \$30 to the best

speaker exclusive of the two just mentioned; also, a prize for poetry of \$50; and two prizes of \$40 and \$30, respectively, for the best and second best written disputations.

#### CLASS OF 1859 PRIZE

The interest of \$2,000, given by the Class of 1859, will be awarded to that member of the Senior class who shall write the best essay on John Keats and his poetry, and pass the best examination on Milton's *Samson Agonistes*. The essay must be handed in on or before June 1, and the examination will be held in June. The subject of the essay for the Class of 1910 will be George Herbert.

#### GEORGE POTTS BIBLE PRIZES

The yearly interest of \$1,000, given in 1867 by Mrs. Sarah A. Brown, expended in the purchase of two copies of Matthew Henry's Commentary on the Bible, will be presented to the best two Biblical scholars of the Senior class at the end of their course.

#### LYMAN H. ATWATER PRIZE IN POLITICAL SCIENCE

This prize, being the annual interest on the sum of \$1,000, contributed by the Class of 1883, was instituted as a memorial of the Rev. Lyman H. Atwater, D.D., LL.D., Professor of Political Science. It will be given to that member of the Senior class who shall have passed the best examination and written the best thesis on some subject in political science, to be assigned by the professors in charge of the Department of Jurisprudence and Politics.

The thesis must be ready June 1; the examination will be held on that day. The subject for the thesis in 1909 and the basis on which the examination is to be set will be: "The Presidency; Does it exceed or fall short of the sphere delineated for it in the debates of the Constitutional Convention of 1787?"

## FREDERICK BARNARD WHITE PRIZE IN ARCHITECTURE

The late Mrs. Norman White established in memory of her son, Frederick Barnard White, of the class of 1883, a prize in architecture, yielding \$50. The prize is open to the entire Junior and Senior classes and to special students who take a full schedule of studies. The subject of the essay for this year is, The Development of the Greek Archaic Temple. The subject of the examination is, Greek Architecture. The essay should be presented before June 1.

## THEODORE CUYLER PRIZE IN ECONOMICS

The interest of \$5,000, presented by C. C. Cuyler, Esq., of the Class of 1879, will be given to that member of the Senior class who shall present the best thesis and pass the best examination, on June 1, 1909, on some subject in political economy, to be assigned by the professors in charge of that department. The subject for the thesis of 1909 will be, An Estimate of Fabian Socialism; the examination will be on Economic Theory and will be based on Mill, Marshall, and Fetter.

## CLASS OF 1869 PRIZE IN ETHICS

The annual interest of \$3,000, given by the Class of 1869, will be awarded to that member of the Senior class who shall pass the best examination in ethics and write the best essay. The essay to be presented on or before June 1. The subject of the essay for the Class of 1908 will be, A Criticism of Spencer's *Data of Ethics*.

## C. O. JOLINE PRIZE IN AMERICAN POLITICAL HISTORY

The sum of \$50 will be awarded annually at Commencement to that member of the graduating class who shall have maintained a creditable standing in the subject of American history, and who shall have submitted the best written



dissertation upon some subject of American history, assigned by the professor in charge of that department, and based in part at least, upon original investigation.

The dissertation must be at least 5,000 words in length and must be accompanied by a bibliography of the subject. Specific references to the sources used must be given throughout.

The prize shall be awarded by the professor or professors in charge of the department of American history.

#### NEW YORK HERALD PRIZE

The yearly interest of \$1,000, presented by James Gordon Bennett, Esq., will be given to that member of the Senior class, or to the special student of satisfactory standing, who shall have taken for both terms of Senior year at least two of the courses given by the Department of History, Politics, and Economics, and at least one course in English literature for both terms, and who shall have presented the best thesis in English prose upon some subject of contemporaneous interest in the domestic or foreign policy of the United States Government. The thesis must be ready by June 1. The subject for the thesis in 1909 will be: "The Rise and Growth of the Presidential Message, and Its Importance as a Political Factor."

#### WOOD LEGACY

The sum of \$150, the income of a legacy of Dr. George B. Wood, will be awarded to that member of the Junior class who shall stand highest for the Junior year.

#### JUNIOR ORATOR MEDALS AND MACLEAN PRIZE

Four gold medals, or books of equal value, will be awarded by a committee, appointed by the Board of Trustees, to the four successful competitors in an oratorical contest during Commencement week. The competitors are

eight members of the Junior class—four from the Clio-sophic and four from the American Whig Societies—selected by committees appointed by the Societies respectively from their own members in the Faculty.

The Maclean Prize, founded by the will of the late Henry A. Stinnecke, consisting of the sum of \$100, will be given to that one of the orators chosen by the Literary Societies from the Junior class who shall during Commencement week pronounce the best English oration.

The committee of judges will be composed of a professor of English and two graduates of the University not members of the Faculty.

#### DICKINSON PRIZE

The Dickinson Prize, founded in 1782 by the Hon. John Dickinson, of New Jersey, Governor of Pennsylvania and Delaware, consisting of a medal of the value of \$60 (or its equivalent in money), will be awarded to that member of the Junior class who shall write the best dissertation upon a theme in logic; the dissertation to be presented on or before June 1. The subject of the dissertation: The Theory of Judgment.

#### CLASS OF 1876 MEMORIAL PRIZE FOR DEBATE IN POLITICAL SCIENCE

This prize is to be given annually by the Class of 1876 to the successful contestant in a debate on a subject of current interest in American politics, to be held on Washington's Birthday, said prize to be the interest of \$2,000. The competitors, four in number, one from each class, are to be chosen by a vote of their respective classes.

#### CLASS OF 1870 JUNIOR ENGLISH PRIZES

Of the yearly interest of \$1,500, one-half will be given to the best Old English scholar, and one-half to the best

English literature scholar of the Junior Academic class, electing the English Department.

THOMAS B. WANAMAKER ENGLISH LANGUAGE PRIZE

This prize, the yearly interest of \$1,000, will be given to that member of the Junior Academic class, electing the English Department, who shall pass the best examination in English philology, and write the best thesis on some assigned topic therein.

MARY CUNNINGHAM HUMPHREYS JUNIOR GERMAN PRIZES

Two prizes, of \$25 and \$15 respectively, established by the late Professor Willard Humphreys in memory of his mother, Mary Cunningham Humphreys, will be awarded to those members of the Junior class who, having taken the regular German course for at least two years (all the courses in the Germanic Section of the Modern Language Department in Junior year and the prerequisite course of Sophomore year), shall, at the close of the second term, pass the best examinations on the work of the term.

STINNECKE PRIZE

The Stinnecke Foundation was established in 1870 by the will of the late Henry A. Stinnecke, of the class of 1861, and was supplemented by a bequest received in 1876 from his aunt, Miss Maria Stinnecke. The income is divided between the Stinnecke Scholarship of \$500 and the Maclean Prize of \$100.

The Stinnecke Scholarship, of the annual value of \$500, tenable during the undergraduate course, unless forfeited by neglect of study, "was given to that person who, having entered the Sophomore class, passed the best examination at the opening of the session in September, 1908, in the Odes of Horace, the Eclogues of Virgil, and

the Latin Grammar and Prosody, as well as the *Anabasis* or *Cyropædia* of Xenophon and the Greek Grammar." Students of the University who have been members of the Freshman class, as well as new students entering the Sophomore class, will be admitted to such examination. The committee of examiners is appointed by the Board of Trustees. The next competition for this scholarship will be held in the autumn of 1911.

#### CLASS OF 1861, PRIZE

The interest of \$1,200, given by the Class of 1861, will be awarded to the member of the Sophomore class who shall pass the best examination at the end of the year on the honors mathematics of the Sophomore year.

#### FRANCIS BIDDLE SOPHOMORE ESSAY PRIZE

This prize, the yearly interest of \$500, will be given to that member of the Sophomore class, not below the fourth group in his English studies, who, in the judgment of a committee appointed by the Faculty, shall write the best English essay of the year.

#### CLASS OF 1870 SOPHOMORE ENGLISH PRIZE

This prize, the yearly interest of \$1,000, will be given to that member of the Sophomore Academic class who shall pass the best examination on the English studies of the year.

#### SPENCER TRASK DEBATING FUND

The interest of \$3,000, given by Spencer Trask, Esq., of New York City, is used to promote debating. At present one-third of the interest is awarded to the best debaters in the trials for the intercollegiate debate with Yale; one-third to the best debater in the trials for the intercollegiate debate with Harvard; and one-third for general debating expenses.

CLASS OF 1883 PRIZES FOR ENGLISH IN THE SCHOOL  
OF SCIENCE

*Class of 1883 English Prize for Juniors in B.S. and Litt. B. Courses.*—This prize, the annual interest of \$1,000, will be given to that member of the Junior class, a candidate for the degree of B.S. or Litt.B., electing all courses in the English Department, who shall have passed the best examination in English philology and submitted the best essay on a subject in English literature assigned by the English Department.

*Class of 1883 English Prize for Freshmen in Civil Engineering Course.*—This prize, the annual interest of \$1,000, will be given to that member of the Freshman class, in the civil engineering course, who shall have done the best work in the English studies of the Freshman year, and shall have submitted the best essay on a subject assigned by the English Department.

PHILO SHERMAN BENNETT PRIZE IN POLITICAL SCIENCE

The interest on the sum of four hundred dollars, the gift of the late Philo Sherman Bennett, of New Haven, Connecticut, to be bestowed on that member of the Senior or Junior class of the University who shall write the best essay discussing the principles of free government. The essay must be in the hands of the Professor of Politics by the first of June.

ORANGE ALUMNI ASSOCIATION PRIZE SCHOLARSHIP

This scholarship, which pays the holder \$200 per annum, the income from \$4,000 given by the Princeton Alumni Association of the Oranges, will be awarded in accordance with the following conditions:

I. Only those are eligible to compete for this scholarship whose parents or family shall at the time of the com-

petition have been resident for at least one year in the district of the Princeton Alumni Association of the Oranges, and who themselves are in residence at Princeton as regular members of the Freshman class in a course leading to a Bachelor's degree.

II. For those eligible to compete for this scholarship a special examination shall be arranged as early in the first term as may be convenient, the material of which shall be selected from the subjects required for entrance. The Faculty shall name as winner of the scholarship that student who stands highest in this examination, and as alternate the student who stands next highest. This alternate may become the holder of the scholarship in case of the death or removal of the winner.

III. The scholarship shall be retained by its winner during his Freshman and Sophomore years, provided that in his studies he maintains a rank not below the second general group and that he does not come under serious discipline for misconduct.

The next competition for this scholarship will be held in the autumn of 1909.

## SCHOLARSHIPS

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### ENDOWED SCHOLARSHIPS

The first scholarships were established in 1854. Between that time and 1903 one hundred and eleven scholarships, amounting to \$114,500, were founded. The income from these, with the exception of the ELIZABETH VAN CLEVE Scholarship, is for the benefit of candidates for the degree of Bachelor of Arts.

#### SCHOLARSHIPS FOUNDED BETWEEN 1854 AND 1903

- |        |   |        |
|--------|---|--------|
| 1-3.   | The COLT Scholarships, founded by Roswell Colt, Esq., of Paterson, N. J.,                                   | \$3000 |
| 4.     | The NEWKIRK Scholarship, founded by Matthew Newkirk, Esq., of Philadelphia,                                 | 1000   |
| 5.     | The JOHN JOSEPH RANKIN Memorial Scholarship, founded by his father, William Rankin, Esq., of Newark, N. J., | 1000   |
| 6.     | The CRESSWELL Scholarship, founded by A. Cresswell, Esq., of Kishacoquillas, Pa.,                           | 1000   |
| 7.     | The ISAAC N. RANKIN Scholarship, founded by Isaac N. Rankin, Esq., of Newark, N. J.,                        | 1000   |
| 8.     | The MUSGRAVE Scholarship, founded by Rev. George W. Musgrave, D.D.,   | 1000   |
| 9.     | The COGSWELL Scholarship, founded by Rev. Jonathan Cogswell, D.D.,  | 1000   |
| 10.    | The GREEN Scholarship, founded by Hon. Henry W. Green, LL.D.,   | 1000   |
| 11-15. | The LENOX Scholarships, founded by James Lenox, Esq., of New York,  | 5000   |
| 16.    | The HODGE Scholarship, founded by Dr. Hugh L. Hodge, of Philadelphia,                                       | 1000   |
| 17.    | The A. B. BAYLIS Scholarship, founded by A. B. Baylis, Esq., of Brooklyn,                                   | 1000   |

18.	The HENRY J. VAN DYKE Scholarship, founded by Geo. L. Sampson, Esq., of Brooklyn,	\$1000
19.	The GREGORY Scholarship, founded by Dudley S. Gregory, Esq., of Jersey City,	1000
20.	The FIRST PRESBYTERIAN CHURCH OF PEEKSKILL Scholarship, founded by members of the Church,	1000
21.	The VAN VORST Scholarship, founded by the Hon. John Van Vorst, of Jersey City,	1000
22.	The JANEWAY Scholarship, founded by Rev. Jacob J. Janeway D.D.,	1000
23.	The PRESBYTERIAN CHURCH OF HUNTINGTON, L. I., Scholarship, founded by the ladies of the Church,	1000
24.	The BACKUS Scholarship, founded by E. F. Backus, Esq., of Philadelphia,	1000
25.	The VAN SINDEREN Memorial Scholarship, founded by Mrs. and Miss Van Sinderen, of Brooklyn,	1000
26.	The NORRIS HALSTED Scholarship, founded by Gen. N. Norris Halsted, of Newark, N. J.,	1000
27.	The MACLEAN Scholarship, founded by Drs. John and George M. Maclean,	1000
28.	The HAINES Scholarship, founded by Richard T. Haines, Esq., of Elizabeth, N. J.,	1000
29.	The JACKSON Scholarship, founded by Hon. John P. Jackson, of Newark, N. J.,	1000
30.	The TUTTLE Scholarship, founded by Joseph N. Tuttle, Esq., of Newark, N. J.,	1000
31.	The GERTRUDE N. WOODHULL Memorial Scholarship, founded by her son, Dr. John N. Woodhull, of Princeton.	1000
32.	The NATHANIEL W. TOWNSEND Memorial Scholarship, founded by his daughter, Mrs. Daniel Haines,	1000
33.	The FIRST PRESBYTERIAN CHURCH OF BRIDGETON Scholarship, founded by members of the Church,	1000
34.	The SKIDMORE Scholarship, founded by Joseph R. Skidmore, Esq., of New York,	1000



# SCHOLARSHIPS

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35.	The SPENCER Scholarship, founded by I. S. Spencer, Esq.,	\$1000
36.	The JEREMIAH D. LALOR Memorial Scholarship, founded by a friend,	1000
37.	The MARQUAND Scholarship, founded by Frederick Marquand, Esq., of Southport, Conn.,	1000
38.	The FIRST PRESBYTERIAN CHURCH OF TRENTON Scholarship, founded by members of the Church,	1000
39.	The CAMERON Scholarship, founded by Hons. Simon and Donald Cameron,	1000
40.	The SECOND PRESBYTERIAN CHURCH OF ELIZABETH Scholarship, founded by members of the Church,	1000
41.	The C. S. BAYLIS Scholarship, founded by Charles S. Baylis, Esq., of Brooklyn,	1000
42.	The ELIZA MUSGRAVE GIGER Memorial Scholarship, founded by her son, Prof. George M. Giger, D.D.,	1000
43.	The BLAIR Scholarship, founded by James Blair, Esq., of Scranton, Pa.,	1000
44.	The PENNINGTON Scholarship, founded by Dr. Samuel H. Pennington, of Newark, N. J.,	1000
45.	The FENTON Scholarship, founded by Aaron Fenton, Esq.,	1000
46.	The TRASK Scholarship, founded by Alan-son Trask, Esq., of Brooklyn,	1000
47.	The WITHINGTON Scholarship, founded by Chandler Withington, Esq., of Kingston, N. J.,	1000
48.	The NEWARK Scholarship, founded by the will of Henry Rogers, Esq., of Newark, N. J.,	1000
49.	The CARTER Scholarship, founded by Aaron Carter, Esq., of Newark, N. J.,	1000
50-54.	The HOLMES Scholarships, founded by Capt. Silas Holmes, of New York,	5000
55.	The COLWELL Scholarship, founded by Stephen Colwell, Esq., of Philadelphia,	1000
56.	The AITKEN Scholarship, founded by John Aitken, Esq., of New York,	1000

57.	The BULLARD Scholarship, founded by Mrs. P. Bullard,	\$1000
58.	The NEHEMIAH PERRY Scholarship, founded by the Hon. Nehemiah Perry, of Newark, N. J.,	1000
59.	The CHARLES DICKINSON HAMILL Memorial Scholarship, founded by his father, the Rev. Samuel M. Hamill, D.D.,	1000
60.	The CYRENIUS BEERS Memorial Scholarship, founded by his daughter, Miss Julia Beers,	1000
61.	The JACOBUS Scholarship, founded by Peter Jacobus, Esq., of Newark, N. J.,	1000
62.	The MATTHEW B. HOPE Scholarship, founded by the Trustees as an acknowledgment of the services of Prof. Hope in raising an endowment of over \$100,000,	1000
63.	The JOHN MACLEAN Scholarship, founded by a friend of President Maclean,	1000
64.	The WHITE Scholarship, founded by William White, Esq.,	1000
65.	The ELIZABETH VAN CLEVE Scholarship, founded by Hon. C. S. Green, of Trenton, N. J.,	2000
66.	The BLOOMFIELD Scholarship, founded by Hon. Amzi Dodd, of Bloomfield, N. J.,	1000
67.	The FLAGLER Scholarship Fund, the gift of Henry M. Flagler, Esq., of New York City,	1500
68.	The JAMES McCOSH Scholarship, founded by friends of President McCosh in New York City,	1000
69.	The WISTAR MORRIS WOOD and CHARLES MORRIS WOOD Scholarship, founded by their father, Charles Wood, D.D., of Germantown, Pa.,	2000
70.	The CLASS OF 1856 Scholarship, founded by members of the Class of 1856,	1000
71.	The CLASS OF 1841 Scholarship, founded by members of the Class of 1841,	1000
72.	The ALBERT DOD BROWN Memorial Scholarship, founded by his mother, Mrs. Susan D. Brown, of Princeton, N. J.,	1000

- 73-82. The JONATHAN DICKINSON Scholarship,  
 The AARON BURR Scholarship,  
 The JONATHAN EDWARDS Scholarship,  
 The SAMUEL DAVIES Scholarship,  
 The SAMUEL FINLEY Scholarship,  
 The JOHN WITHERSPOON Scholarship,  
 The SAMUEL STANHOPE SMITH Scholarship,  
 The ASHBEL GREEN Scholarship,  
 The JAMES CARNAHAN Scholarship,  
 The FRANCIS L. PATTON Scholarship,  
 founded by Miss Rachel L. Kennedy, New  
 York, \$10,000
- 83-87. The KENNEDY Scholarships, founded by  
 Miss Rachel L. Kennedy, New York, 5000
88. The A. O. HEADLEY Scholarship, founded  
 by A. O. Headley, Esq., of Newark, N. J., 1000
89. The HARVEY LINDSLEY Memorial Scholar-  
 ship, founded by Mrs. Emeline Coney Lind-  
 sley, 1000
90. The BUTLER Scholarship, founded by Wil-  
 liam Allen Butler, Jr., Esq., 1500
91. The BROKAW Scholarship, founded by Isaac  
 V. Brokaw, Esq., of New York, 1000
92. The EZRA NYE Memorial Scholarship,  
 founded by his son-in-law, F. Wolcott Jack-  
 son, Esq., of Newark, N. J., 1000
93. The GRACE NEWCOMBE DENNING Scholar-  
 ship, founded by Mrs. William Moir, of New  
 York, 1500
94. Founded by a friend, 1000
- 95, 96. The MCCORMICK Scholarships, founded  
 by Mrs. McCormick, of Chicago, 2000
97. The WILLIAM CAMPBELL TRUESDELL Memo-  
 rial Scholarship, founded by his father, War-  
 ren N. Truesdell, Esq., of Newark, N. J., 1000
98. The HENRY M. ALEXANDER Scholarship,  
 founded by a friend, 1000
99. The JOHN C. D. MATTHEWS Memorial Schol-  
 arship, founded by his mother, Mrs. Mary  
 R. Matthews, of Newark, N. J., 1000
100. The MCCORD Scholarship, founded by J. D.  
 McCord, Esq., of Philadelphia, 1000

101-105.	The WALLACE Memorial Scholarships, founded in memory of William C. Wallace, of the class of '23, by his daughters, Mrs. Allen and Miss Wallace, of Newark, N. J.,	\$5000
106.	The ROBERT VOORHEES Scholarship, founded by Mrs. Susan V. Clark,	1000
107.	The J. S. BONSALE Scholarship, founded by Mrs. Susan Bonsall,	1000
108.	The LAURANCE FIELD STEVENS Memorial Scholarship, founded by his father, Herbert B. Stevens, Esq., of Greenwich, Conn.,	1000
109.	The RICHARDS Scholarship, founded by Harry E. Richards, M.D., of Bloomfield, N. J.,	1000
110-111.	The FINLEY and BREESE Scholarships, founded by a bequest of Samuel F. B. Morse,	2000

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In 1903 the Trustees adopted the following rules for the endowment and administration of scholarships:

I. A scholarship in any undergraduate department of the University may be endowed by the payment to the Treasurer of the sum of twenty-five hundred dollars.

II. A scholarship shall entitle the incumbent to receive remission of one hundred dollars per annum from the charge for tuition.

III. The right to nominate the incumbent of a scholarship may rest with the donor, if an individual, during his or her lifetime, and if an institution or alumni association, for a period of twenty-five years. At the end of this period or at the death of the donor, the right of nomination shall revert to and rest with the Faculty of the University.

IV. All scholarships shall be held subject to such rules as may be adopted from time to time by the Faculty of the University.

Since the adoption of these rules the following scholarships have been founded:

112.	The MAHLON LONG Scholarship, founded by the Rev. George Wells Ely, of Columbia, Pa.,	\$10,000
113.	The JOHN LINN PATTON Scholarship, founded by Mr. and Mrs. William A. Patton, of Philadelphia, in memory of their son, John Linn Patton, of the class of 1903,	2500
114.	The JOHN H. CONVERSE Scholarship, founded by John H. Converse, Esq., of Philadelphia,	2500
115.	The JOHN W. CONVERSE Scholarship, founded by John H. Converse, Esq., of Philadelphia,	2500
116.	The ROBERT STOCKTON PYNE Memorial Scholarship, founded by his mother, Mrs. M. Taylor Pyne, of Princeton,	2500
117.	The FREDERICK WOLCOTT JACKSON Scholarship, founded by Philip N. Jackson, Esq., of Newark, N. J.,	2500
118.	The ANDREW WHITE GREEN Scholarship, founded by Cornelius C. Cuyler, Esq., of New York,	5000
119.	The HENRY S. GANSEVOORT Memorial Scholarship, founded by his sister, Mrs. Abraham Lansing, of Albany, N. Y.	2500
120.	The GEORGE BLACK REA Scholarship, in the Department of Civil Engineering, founded by Mr. and Mrs. Samuel Rea, of Bryn Mawr, Pa., in memory of their son, George Black Rea, of the class of 1904,	2500

It is customary to assign these scholarships, when they become vacant, to undergraduates who have been members of the University for at least one year, and who are considered most worthy to receive the benefit.

## UNIVERSITY SCHOLARSHIPS

From the income derived from scholarships founded prior to 1903 forty University Scholarships have been established; ten "A" Scholarships of the annual value of one hundred and fifty dollars each, and thirty "B" Scholarships of the annual value of one hundred and twenty-five dollars each. During the summer these scholarships will be awarded for the first term to members of the Senior, Junior, and Sophomore classes who are candidates for the degree of Bachelor of Arts, and who have previously received remission of tuition, in accordance with the following rules:

(a) The ten "A" Scholarships will be awarded to those students whose standing during the previous year was in the first general group. If more than ten students are eligible, award will be made according to seniority of class.

(b) The thirty "B" Scholarships will be awarded to those students whose standing during the previous year was in the second general group. If more than thirty students are eligible, award will be made according to seniority of class.

University Scholarships are awarded in all cases for one term and subject to the following conditions:

I. The holder must be regular in his attendance at his college exercises and free from serious discipline.

II. His general group, as shown by his latest semi-annual report, must not be below that in which he stood when the scholarship was awarded to him.

III. His college bill for one term for board, room rent, light, and heat must not exceed one hundred and fifty dollars.

The holder of a University Scholarship who has fulfilled these conditions during the first term of a college year is entitled to the scholarship for the second term of that year without further action on his part.

## REMISSION OF TUITION

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In order that candidates for the degree of Bachelor of Arts, of insufficient means and of more than ordinary intellectual ability, may be enabled to secure an education, it is customary for the Faculty to remit a part (never more than fifty dollars a term) of the charge for tuition of those applicants who present satisfactory testimonials as to scholarship and character, and proof that the assistance is absolutely needed. This remission is in the form of a loan, and all applicants who receive it are required to sign a non-interest-bearing note.

Remission of tuition is granted in all cases for one term and subject to the following conditions:

I. The student must be regular in attendance at his college exercises and free from serious discipline.

II. His stand, as shown by his latest semi-annual report, must not be below the third general group.

III. His college bill for one term for board, room rent, light, and heat must not exceed one hundred and fifty dollars.

A student who has fulfilled these conditions during the first term of a college year is entitled to remission of a like amount of the charge for tuition for the second term of that year without further action on his part.

For application blanks and further information apply to Charles W. McAlpin, Esq., Secretary of the University.

## FUNDS FOR CANDIDATES FOR THE MINISTRY

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THE RICHARDS FUND.—A bequest of Mrs. Esther Richards, of New York, amounting to \$2,970.32, for the benefit of candidates for the ministry. Received in 1790.

THE LESLIE FUND.—A bequest of James Leslie, of New York, of the class of 1759, amounting to \$10,677.49, for "the education of poor and pious youth with a view to the ministry of the Gospel in the Presbyterian Church." Received in 1792.

THE HODGE FUND.—A bequest of Hugh Hodge, of Philadelphia, of a house and lot on Market street, above Second (No. 205), "to be held by the Trustees in trust, to lease out from time to time, and the rents to be applied to the support and education of pious youth for the ministry." Received in 1805.

For application blanks for aid from the funds for candidates for the ministry apply to Charles W. McAlpin, Esq., Secretary of the University.

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## CHARITABLE FUND

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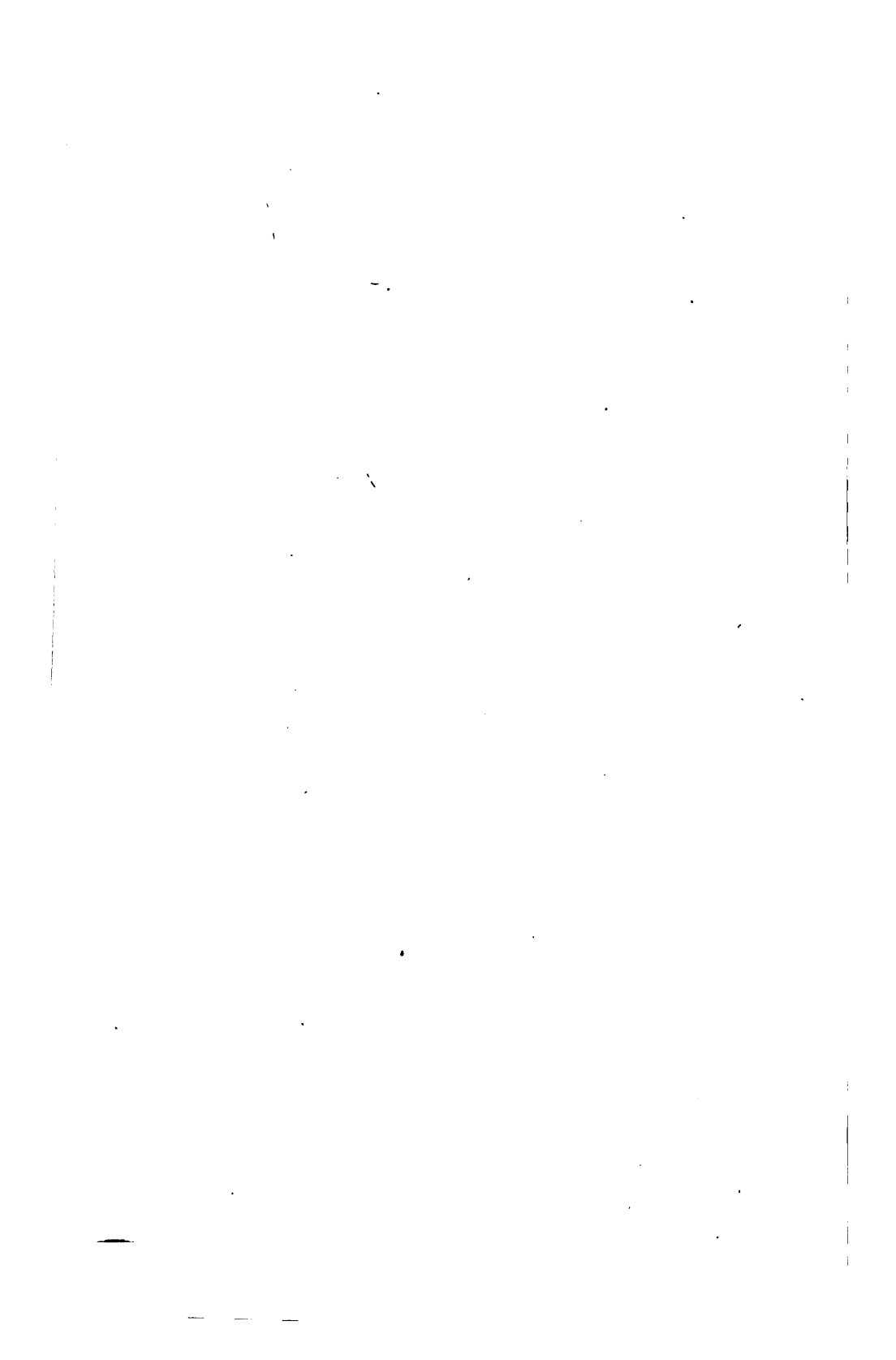
THE VAN ARSDALE FUND.—A bequest of Robert Van Arsdale, of Newark, N. J., of the class of 1826, amounting to \$3,000, "in trust for promoting charitable instruction in the College of New Jersey, according to the discretion of the Faculty." Received in 1875.

Applications for aid from the Van Arsdale Fund should be made to Professor Henry B. Fine, Dean of the Faculty.



**PART IX**

**DEGREES AND HONORS, 1907-1908**



## DEGREES CONFERRED, 1907-1908

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### DEGREES IN COURSE, CONFERRED OCTOBER, 1907

- A.B.—Arthur Albion Dempster, as of the class of 1907  
       Thomas Henry Powers Farr, Jr., as of the class of 1907  
       James Allaire Hendrickson, as of the class of 1907  
 A.M.—John Nelson, Grove City College, 1899

### HONORARY DEGREE, CONFERRED OCTOBER, 1907

- LL.D.—James Bryce

### DEGREES IN COURSE, CONFERRED APRIL, 1908

- A.B.—Douglas Halsted, as of the class of 1907  
       William Lloyd Keepers, as of the class of 1907  
       Leslie Gordon Lithgow, as of the class of 1907  
       Clapham Murray, Jr., as of the class of 1907  
 LITT.B.—Lawrence Roberts Carton, as of the class of 1907  
       Delos Crary, as of the class of 1907  
 C.E.—Charles Dallas Ridgway, Jr., as of the class of 1905  
       Frederic Beekman McCracken, as of the class of 1907  
 A.M.—Ralph Alden Garrison, 1905

### HONORARY DEGREES, CONFERRED JUNE, 1908

- LL.D.—Harry Augustus Garfield  
       Mahlon Pitney  
       Kogoro Takahira  
 D.D.—Wilford Lash Robbins

### DEGREES IN COURSE, CONFERRED JUNE, 1908

#### DOCTORS OF PHILOSOPHY (*Ph.D.*) . . . . . 6

- William Edmund Lampe, A.B., 1896  
 George MacFeely Conwell, A.B., 1905  
 Charles Christopher Mierow, A. B., 1905

Fay Cluff Brown, A.B., *Indiana University*, 1904  
 Lionel Herman Duschak, A.B., *University of Michigan*, 1904  
 John Bartholomew O'Connor, A.B., *Rochester University*, 1897

MASTERS OF ARTS (A.M.).....61

James Walter Doughty, 1887	William Dolton Pardoe, 1905
Charles Grenville Cole, 1898,	James Clark Taylor, 1905
as of June 1901	Edwin Elliott Calverley, 1906
Paul Burrill Jenkins, 1894	Archibald Kennedy Fowler, Jr.,
Samuel Moore, 1899	1906
Percival Chandler Norris, 1902	John Davison Rue, Jr., 1906
Clarence Arthur Garbrick, 1903	Randolph Stewart Simpson, 1906
John Watson Christie, 1904	Hubertis Maurice Cummings, 1907
Winfield Leinbach Hartman, 1904	Horace Zweizig Goas, 1907
Arthur Pearson Scott, 1904	Thaddeus Gorecki, 1907
John Baird Atwood, 1905	Harvey Sigafoos Haney, 1907
Charles Ames Brooks, 1905	William Richey Hulsizer, 1907
Alfred Thomas Carton, 1905	Arthur Krupp Kraus, 1907
Henry Harris, 1905	Philander Norton, 1907
Albert Arthur Hamblen, 1905	Fontaine Carrington Weems, 1907

Harry Baremore Angus, *Rutgers College*, 1905  
 Walter Daniel Bonner, *Nebraska Wesleyan University*, 1906  
 Charles Clinton Broy, *Roanoke College*, 1906  
 Francis Albert Connor, *Roanoke College*, 1907  
 Calvin Brewster Coulter, *Williams College*, 1907  
 Benjamin Franklin Farber, *Hanover College*, 1905  
 Marcus Scott Fulton, *Queens College*, 1903  
 Willis Otis Garrett, *Geneva College*, 1905  
 Harold Garfield Gaunt, *Alma College*, 1906  
 Stuart McKelven Hunter, *Bellevue College*, 1905  
 LeRoy Christian Ilsley, *Coe College*, 1906  
 Nils Kleven, *St. Olaf College*, 1901  
 Dean Richmond Leland, *Hamilton College*, 1889  
 John Wythe Lewis, *New York University*, 1906  
 William Brown Lusk, *Royal University of Ireland*, 1907  
 Kenneth Percy MacDonald, *University of Nebraska*, 1904  
 Harry Preston Midkiff, *Lenox College*, 1906  
 Robert Howard Mulholland, *Geneva College*, 1903  
 Frederick David Niedermeyer, *University of Illinois*, 1904  
 Robert John Power, *Queens College*, 1904  
 Delmer Bell Ralston, *Park College*, 1905

Claton Silas Rice, *Bellevue College*, 1905  
 Thomas Rowan, *Central University*, 1908  
 Glenn McMeen Shafer, *Heidelberg University*, 1903  
 Royal Jesse Smalley, *Cornell College*, 1905  
 Herbert Booth Smith, *Washington University*, 1905  
 Jacob Julius Steffens, *Hope College*, 1904  
 Henry Roscoe Trumbower, *Lehigh University*, 1903  
 Motojiro Wakimoto, *Waseda University*, 1904  
 Isamu Lebby Watanabe, *Momoyama High English College*, 1897  
 David Carothers Whitmarsh, *Washington and Jefferson College*, 1906  
 DeWitt Clinton Williamson, *Bellevue College*, 1905  
 Isaburo Yano, *Tohoku Gakuin College*, 1898

MASTER OF SCIENCE (M.S.) . . . . . 1

Charles Ferguson Cook, *Cornell University*, 1906

ELECTRICAL ENGINEERS (E.E.) . . . . . 2

John Oliphant Merwin, 1903  
 Benjamin Warfield Kerr, 1906

BACHELORS OF ARTS (A.B.) . . . . . 124

Julian Power Alexander	Robert Dobbie Christie
Elliot Redfield Andrews	Thomas Street Clark
William Mandeville Austin	John Constine Coons
Elmer Wayne Baker	David Cushman Coyle
Ephraim Banning, Jr.	Louis Curtiss Cummings
Hugh Campbell Barrett	William Oscar Davey
Lyman Guy Barton, Jr.	Hamilton James Donovan
John Arner Bell, Jr.	John Foster Dulles
Charles E. Berghaus	Calvin Thompson Dunham
Frank Lane Boynton	William Parmly Dunn
William Hallock Braddock	Roy Sarles Durstine
Eugene Ambrose Brennan	Harry William Elliott
Charles Brook	Warren Elsing
Ralph Manning Brown	Vincent Nathan Elwood
John Marshall Hills Bruce	John Gallagher Farley, Jr.
LaFayette Lentz Butler	William Parker Finney, Jr.
Merton Kirk Cameron	Herbert Eugene Fowler
Charles Donald Carey	Charles Howard French
Randolph Catlin	Fred Thomas Fruit
Alan Reid Chalmers	William Augustus Gill

Samuel Loren Gilson	Kenneth Dexter Miller
Robert Crispin Glenn	John Platt Myers
Howard Luther Goas	Archie Huston Ormond
Walter Henry Ferdinand Grau	Walter Jenkins Phillips,
Caleb Smith Green	William McLellan Pomeroy
Joseph Coy Green	Ernest Clifford Pullen
Clinton Jennings Greene	David Hunter McAlpin Pyle
William Morris Griscom, Jr.	Moses Taylor Pyne, Jr.
Ralph Jandt Haley	James Rutherford Rhodes
Edwin Hanson Webster Harlan	Clayton Augustus Robbins
John Francis Hart	Alfred Leopold Rose
James White Haulenbeek	Louis Joseph Rouse
Edward Prince Hawes	William Schroeder
Francis Wenger Heagey	Chester Kriebel Schultz
Rodney Hill, Jr.	Theodore Adolphus Serfas
Charles Franklin Hosford, Jr.	Leslie Hill Simons
Job H Jackson, Jr.	Lloyd Weir Smith
Wade McCall Johnson	Thomas Leaming Smith
Henry Lester Jones	Walter Bernard Solinger
Robert Breckinridge Jones	Alanson Hosmer Spencer
Henry Emil Joy	Howard Rufus Stiles
Isidore Kalisch	Allison Ellsworth Stuart
James Lee Kauffman	Howard Stanley Stuckey
George Alfred Keepers	Aaron Snyder Swartz, Jr.
James Thomas Kerr	Thomas Sinclair Taliaferro
Rollin Hibbard Kimball, Jr.	Howard Fisher Taylor
Lewis Atwood Knott	Porter Morell Taylor
Isaac Reiff Krieble	William Carson Temple
Kenneth Hemenway Lanning	Walter Neal Thompson
George Alexander Leonard	Henry Jackson van Dyke, III
George Van Ness Lothrop, 2d	Charles Wills Vernon, Jr.
George William Childs McCarter	Ernest Rudolf Voigt
Gilbert Stuart McClintock	Daniel List Warner
Edward Huntington McLean	James Morgan Watkins
Robert Shankland McNair	Charles Henry Weelans
Montrose Bovard Magoffin	Walter W Westervelt
Trenholm Hatch Marshall	Nelson Platt Wheeler, Jr.
Daniel Ivins Messler	Charles Williams
Thomas Holcombe Mettler	Charles Christian Wolferth
Edward Derr Miers	Isaac Trumbull Wood
Everard Patterson Miller, Jr.	Percy Clifford Wood
Alfred McClure, Jr., as of the class of 1906	
Hamilton Morel Coan, as of the class of 1907	

BACHELORS OF LETTERS (*Litt.B.*).....53

John Percy Coleman Alden	John Hedges Kelly
John Cox Atlee	Gerard Barnes Lambert
William Wallack Blatchford, Jr.	Frederic Leake
Garvin Morris Brown	George Looms, Jr.
Walton Clark, Jr.	William Combs McDermott
Robert Clarkson Clothier	Edgar Stanley McKaig
William Henry Colvin	Austin Gardette Maury
William Bernard Connors	William Rowell Neff
Sidney Lawrence Crawford	Ralph Dodd Osborne
Emlen Meigs Drayton	Harold Clarke Parkin
Frank Ray Elder	Paul Tyler Peckham
Robert Burnett Failey	Robert Gibson Robinson
Grant Glenwood Flory	Arthur Ryan
Robert Wright Forsyth, Jr.	Andrew Horace Scott
Samuel Miller Gallaher	Dallas Armstrong Shafer
Louis Brainard George	Edward Johnson Shedd
Geoffrey Graham	George Doane Smith
Guy Merkle Grandin	Frank Palmer Southworth
Frank Albert Gregory	Augustus Carl Studer, Jr.
Earnest Raymond Halliday	Benson Alvin Talbot
Chalmers Martin Hamill	George Wyckoff Vanderhoef, Jr.
William Seward Houston	Joseph Nelson van der Voort
Howard Chapin Jones	Robert Wisdom Wallace
Murray Brasher Jones	William Tantum West
Raymond Edgar Jones	Louis Earle Wilmerding
William Frederick Kain	Lewis Caspar Wister

Ewing Lawrence Rafferty, as of the class of 1906

BACHELORS OF SCIENCE (*B.S.*).....18

William Mathews Bane	Edwin Ray Hulbirt
William Scott Bergland	Fred Rudy Hutchison
Francis Harold Bockoven	Richard Kilgore
Charles Davenport Champlin	Empie Latimer
James Dickinson Cowan	Herbert Russell Latimer
Zaccheus Daniel	Raymond Inslee Mount
Owen Llewellyn Davis	Edwin Mifflin Ong
Penn Harvey	Edward De Witt Shumway
Spencer Green Harvey	Richard Edward Thibaut, Jr.

## CIVIL ENGINEERS (C.E.).....28

John V Bishop	Donald Eugene Gensler
Joseph Philip Cappeau, Jr.	Paul Rudolph Goppoldt
Egbert De Forest Case	Dudley Guillaudeu
David Hatfield Clark	John Havron, Jr.
Maurice Butler Clark	Harold Holmes
George Gilbert Cornwell	James Alvah Huston, Jr.
Theodore Crane	William Allen March
Le Ray Eldridge Dale	Jorge Munoz
William Johnston Davidson	Ralph Peters, Jr.
Stanley Edward Dolph	Constantine Paudia Ralli
Malcolm Frederick Duff	Charles Newman Read
Frank Edward Fell	Wilbur Clark Springer
Edward Charles Fish	Rolland Ezra Stevens
Robinson Victor Frost	Edward Royal Stoevers



## HONORS CONFERRED, 1907-1908

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### SENIOR HONORMEN

#### HONORS FOR GENERAL EXCELLENCE

##### ACADEMIC DEPARTMENT—BACHELOR OF ARTS COURSE

###### FIRST GROUP—*Magna cum laude*

David Cushman Coyle	Archie Huston Ormond
John Foster Dulles	Howard Rufus Stiles
<i>Valedictory</i>	Walter W Westervelt
Montrose Bovard Magoffin	<i>Latin Salutatory</i>
Isaac Trumbull Wood	

###### SECOND GROUP—*Cum laude*

Elliot Redfield Andrews	James Lee Kauffman
Lyman Guy Barton, Jr.	Isaac Reiff Kriebel
LaFayette Lentz Butler	George William Childs McCarter
Merton Kirk Cameron	Edward Huntington McLean
William Parmly Dunn	William Schroeder
Harry William Elliott	Allison Ellsworth Stuart
Warren Elsing	Howard Stanley Stuckey
Robert Crispin Glenn	Aaron Snyder Swartz, Jr.
Howard Luther Goas	Henry Jackson van Dyke, III
Joseph Coy Green	Charles Wills Vernon, Jr.
Francis Wenger Heagey	Charles Henry Weelans
Charles Franklin Hosford, Jr.	Charles Christian Wolferth

##### ACADEMIC DEPARTMENT—BACHELOR OF LETTERS COURSE

###### SECOND GROUP—*Cum laude*

George Looms, Jr.	Robert Gibson Robinson
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## SCHOOL OF SCIENCE—BACHELOR OF SCIENCE COURSE

FIRST GROUP—*Magna cum laude*

Edwin Ray Hulbirt

SECOND GROUP—*Cum laude*

Penn Harvey

Richard Edward Thibaut, Jr.

## SCHOOL OF SCIENCE—CIVIL ENGINEERING COURSE

FIRST GROUP—*Magna cum laude*

John Havron, Jr.

SECOND GROUP—*Cum laude*

George Gilbert Cornwell

Frank Edward Fell

Le Ray Eldridge Dale

Edward Charles Fish

Robinson Victor Frost

## SPECIAL HONORS IN PARTICULAR DEPARTMENTS

PHILOSOPHY. *Highest Honors*—John Foster Dulles, Archie Huston Ormond.

HISTORY, POLITICS, AND ECONOMICS. *High Honors*—Howard Rufus Stiles.

CLASSICS. *Highest Honors*—Walter W Westervelt. *High Honors*—Warren Elsing.

ENGLISH. *Highest Honors*—William Schroeder, Henry Jackson van Dyke, III. *High Honors*—William Parmley Dunn, Robert Crispin Glenn, Howard Luther Goas, Robert Gibson Robinson, Howard Stanley Stuckey. *Honors*—Herbert Eugene Fowler.

MODERN LANGUAGES. *Honors*—Lyman Guy Barton, Jr.

MATHEMATICS. *High Honors*—David Cushman Coyle.

PHYSICS. *High Honors*—Penn Harvey, Edwin Ray Hulbirt.

BIOLOGY. *Highest Honors*—Edward Huntington McLean.

## FELLOWS

(For names of Fellows, see page 377.)

## SENIOR PRIZEMEN

## GEORGE POTTS BIBLE PRIZES

William Combs McDermott

William Schroeder

## CLASS OF 1859 PRIZE IN ENGLISH LITERATURE

Julian Power Alexander

## LYNDE DEBATE PRIZES

*First*—Thomas Street Clark*Second*—James Lee Kauffman*Third*—Henry Jackson van Dyke, III

## LYNDE DEBATERS

*From the American Whig Society*    *From the Cliasophic Society*

Eugene Ambrose Brennan

Isaac Reiff Kriebel

Thomas Street Clark

Kenneth Hemenway Lanning

James Lee Kauffman

Henry Jackson van Dyke, III

## BAIRD PRIZES

*Baird Prize*—William Parmly  
Dunn*Poetry*—LaFayette Lentz Butler  
*Disputation, First*—Kenneth*Oratory*—Henry Jackson van  
Dyke, III

Hemenway Lanning

*Delivery*—Frank Ray Elder*Disputation, Second*—Thomas  
Street Clark

## LYMAN H. ATWATER PRIZE IN POLITICAL SCIENCE

George William Childs McCarter

## ALEXANDER GUTHRIE McCOSH PRIZE IN PHILOSOPHY

William Parker Finney, Jr.

*Honorable Mention*—Frank Lane Boynton, Charles Brook

## C. O. JOLINE PRIZE IN AMERICAN POLITICAL HISTORY

Allison Ellsworth Stuart

## CLASS OF 1869 PRIZE IN ETHICS

Archie Huston Ormond

## NEW YORK HERALD PRIZE

Kenneth Hemenway Lanning

## JUNIOR HONORMEN

## ACADEMIC DEPARTMENT—BACHELOR OF ARTS COURSE

FIRST GROUP—*High General Honors*

John Grier Buchanan	James Howard Huddleson, Jr.
John Cobb Cooper, Jr.	Harold Raymond Medina
Lawrence Fenninger	Steuben Butler Murray, Jr.
Isaac Thomas	

SECOND GROUP—*General Honors*

Robert Edwards Annin, Jr.	Norman Story Mackie
Douglas David Ballin	John Hamilton Ober
Charles Hurd Burnett	James Craig Peacock
Bayard Dodge	Charles Kaufman Phillips
Morton Harrison Fry	Spencer Wilson Phraner
Spencer Gordon	Leighton Pearson Scott
Dwight Phelps Green	William Shand
Edwin Silas Wells Kerr	Samuel Shellabarger
Wilbur La Roe, Jr.	Kenneth Gibson Stern
Ralph Llewellyn Thomas	

## ACADEMIC DEPARTMENT—BACHELOR OF LETTERS COURSE

FIRST GROUP—*High General Honors*

Earle Thomas Fiddler

SECOND GROUP—*General Honors*

William Franklin Leeper	Milton Matter
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## SCHOOL OF SCIENCE—BACHELOR OF SCIENCE COURSE

SECOND GROUP—*General Honors*

Alfred Van Santvoord Olcott	Philip Danforth Wilson
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## SCHOOL OF SCIENCE—CIVIL ENGINEERING COURSE

FIRST GROUP—*High General Honors*

Milton Argyle Campbell	Isaac Yost Stauffer
------------------------	---------------------

SECOND GROUP—*General Honors*

John Lee Chapman                      Crowell Marsh Dennis  
Edward Luther Wagner

## JUNIOR PRIZEMEN

## JUNIOR FIRST HONOR PRIZE

Divided equally between  
Lawrence Fenninger, Isaac Thomas and  
Milton Argyle Campbell

## MACLEAN PRIZE

Frank Charles Laubach

## JUNIOR ORATOR MEDALS

*First*—Frank Charles Laubach    *Third*—Morton Harrison Fry  
*Second*—Frank Claton Myers    *Fourth*—John Grier Buchanan

## JUNIOR ORATORS

<i>From the Clisosophic Society</i>	<i>From the American Whig Society</i>
Nathaniel Ewing, Jr.	John Grier Buchanan
Ambrose Freese	Morton Harrison Fry
Frank Charles Laubach	Lacy Donoho Jennings
Frank Claton Myers	Ralph Llewellyn Thomas

## DICKINSON PRIZE

Lawrence Fenninger

## CLASS OF 1876 MEMORIAL PRIZE FOR DEBATE

Morton Harrison Fry

## CLASS OF 1870 JUNIOR ENGLISH PRIZES

*Old English*—Donald Roberts, with honorable mention of  
Samuel Shellabarger  
*English Literature*—Samuel Shellabarger

## THOMAS B. WANAMAKER ENGLISH PRIZE

Isaac Thomas

## MARY CUNNINGHAM HUMPHREYS JUNIOR GERMAN PRIZES

*First*—Isaac Thomas*Second*—Lester Harry Booker

## CLASS OF 1883 JUNIOR ENGLISH PRIZE IN THE SCHOOL OF SCIENCE

William Franklin Leeper

## SOPHOMORE HONORMEN

## ACADEMIC DEPARTMENT—BACHELOR OF ARTS' COURSE

FIRST GROUP—*High General Honors*

John Lawrence Carter,	High School, Montclair, N. J.
Gustave A. Harrer,	Lakewood High School, Lakewood, N. J.
Jesse Herrmann,	Mt. Hermon School, Mt. Hermon, Mass.
Clinton W. Keyes,	Searles High School, Great Barrington, Mass.
George G. Sanborne,	Central High School, Philadelphia, Pa.
Stanley G. Shimer,	High School, Middletown, N. Y.
Charles R. Small,	High School, Harrisburg, Pa.
Lyman B. Veeder,	Free Academy, Utica, N. Y.
Philip S. Watters,	High School, Yonkers, N. Y.

SECOND GROUP—*General Honors*

Lyman C. Butler,	Hill School, Pottstown, Pa.
Paul N. Cadwell,	High School, Atlantic City, N. J.
Francis B. Critchlow,	High School, Salt Lake City, Utah.
John Fine,	Lawrenceville School, Lawrenceville, N. J.
Frank Fritts,	Mt. Hermon School, Mt. Hermon, Mass.
Acton Gerlach,	Mackenzie School, Dobbs Ferry, N. Y.
D. Percy Gilmore,	Allegheny College Preparatory School, Meadville, Pa.
Samuel L. Hamilton,	High School, Wilmington, Del.
Walter B. Hatfield,	Perkiomen Seminary, Pottsville, Pa.
Stanley A. Hunter,	West Denver High School, Denver, Colo.
Herbert Jones,	Lawrenceville School, Lawrenceville, N. J.
John A. Kirkpatrick,	Trenton High School, Trenton, N. J.
Philip V. C. Mattes,	Central High School, Scranton, Pa.
Frederick H. Osborn,	Browning School, New York, N. Y.
Walter B. Spellman,	Plattsburg High School, Plattsburg, N. Y.
Royal R. Spring,	St. James School, Maryland.
James B. Waller, Jr.,	Phillips Academy, Andover, Mass.

## SCHOOL OF SCIENCE—B.S. AND LITT.B. COURSES

## FIRST GROUP

James W. Alexander, II, Browning School, New York, N. Y.

## SECOND GROUP

Robert A. Applegate, Allegheny Preparatory School, Allegheny, Pa.

Henri R. Ferger, Chattanooga High School, Chattanooga, Tenn.

Halsey A. Frederick, Oberlin High School, Oberlin, Ohio.

Matthew Gault, Jr., Boys' Latin School, Baltimore, Md.

Ralph W. Gibbs, Norwalk High School, Norwalk, Ohio.

Woodruff W. Halsey, Battin High School, Elizabeth, N. J.

David K. Jackman, Jr., Riverview Academy, Poughkeepsie, N. Y.

Walter E. Kirby, Irving School, New York, N. Y.

W. R. McCarthy, Lawrenceville School, Lawrenceville, N. J.

## SCHOOL OF SCIENCE—CIVIL ENGINEERING COURSE

## SECOND GROUP

John W. Aymar, Armour Scientific Academy, Chicago, Ill.

Harry L. Baumgartner, State Model School, Trenton, N. J., and  
Asbury Park High School, Asbury Park,  
N. J.

Carl Egner, Newark Academy, Newark, N. J.

Hugh K. Gilmour, Country School, Baltimore, Md.

Charles Hawley, Central High School, Detroit, Mich.

Arthur F. Hinrichsen, High School, Newark, N. J.

James H. Tregloan, Park County Free High School, Livingston,  
Mont.

Thomas H. Welch, Shattuck School, Faribault, Minn.

Willard P. Whitlock, Jr., Pingry School, Elizabeth, N. J.

## SOPHOMORE PRIZEMEN

## CLASS OF 1861 PRIZE IN MATHEMATICS

John Lawrence Carter

## FRANCIS BIDDLE SOPHOMORE ESSAY PRIZE

Halsey Augustus Frederick

## CLASS OF 1870 SOPHOMORE ENGLISH PRIZE

Samuel Lowrie Hamilton, with honorable mention of Stanley  
Armstrong Hunter

## FRESHMAN HONORMEN

## ACADEMIC DEPARTMENT—BACHELOR OF ARTS COURSE

FIRST GROUP—*High General Honors*

Lawrence M. Bament, East Orange High School, East Orange, N. J.  
James J. Porter, Lawrenceville School, Lawrenceville, N. J.

SECOND GROUP—*General Honors*

John D. Bickford,	Wyoming Seminary, Kingston, Pa.
Allison Butts, Jr.,	Riverview Academy, Poughkeepsie, N. Y.
James J. Chisolm,	Lawrenceville School, Lawrenceville, N. J.
Todd D. Cochran,	Johnstown High School, Johnstown, Pa.
George R. Conner,	Lawrenceville School, Lawrenceville, N. J.
George A. Critchlow,	Lawrenceville School, Lawrenceville, N. J.
Beverley R. Gause,	Wilmington High School, Wilmington, Del.
Mead A. Lewis,	Georgetown Preparatory School, Washington, D. C.
Joseph F. Mann,	Bloomfield High School, Bloomfield, N. J.
Isaac Mayers,	Harrisburg High School, Harrisburg, Pa.
Samuel R. Meaker,	Carbondale High School, Carbondale, Pa.
Andrew P. Monroe,	Chestnut Hill Academy, Chestnut Hill, Pa.
James C. Musser,	Oak Place School, Akron, Ohio.
Alexander T. Schanck,	Lawrenceville School, Lawrenceville, N. J.
Donald M. Simons,	Pingry School, Elizabeth, N. J.
Lemuel Skidmore, Jr.,	Summit Academy, Summit, N. J.
William E. Speers,	Hill School, Pottstown, Pa.
James W. Whaler,	Friends School, Wilmington, Del.
Philip H. Wilson,	Kiskiminetas School, Saltsburg, Pa.

## SCHOOL OF SCIENCE—B.S. AND LITT.B. COURSES

FIRST GROUP—*High General Honors*

Edward S. Castle, East Orange High School, East Orange, N. J.



SECOND GROUP—*General Honors*

Montgomery B. Angell, East High School, Rochester, N. Y.  
 Harold M. Barber, Kenyon College, Gambier, Ohio.  
 P. W. Cookingham, Portland Academy, Portland, Oregon.  
 William J. Flather, Jr., University School, Washington, D. C.  
 Kenneth B. Howell, East Orange High School, East Orange, N. J.  
 Barnem Libovitz, Central High School, Scranton, Pa.  
 M. T. O'Donoghue, Phillips Exeter Academy, Exeter, N. H.  
 Douglas C. Orbison, Mercersburg Academy, Mercersburg, Pa.  
 Judd C. Shellito, Evanston High School, Evanston, Ill.  
 J. T. Woodhull, Jr., San Antonio Academy, San Antonio, Texas.

## SCHOOL OF SCIENCE—CIVIL ENGINEERING COURSE

SECOND GROUP—*General Honors*

Alfred W. Booth, Boys' High School, Brooklyn, N. Y.  
 Edward Elsworth, Jr., Hill School, Pottstown, Pa.  
 William N. Fish, Central High School, Philadelphia, Pa.  
 Archibald McLean, III, Boys' High School, Brooklyn, N. Y.  
 Thomas G. Ross, Asbury Park High School, Asbury Park, N. J.  
 Robert H. Smith, Jr., Tome Institute, Port Deposit, Md.

## FRESHMAN PRIZEMEN

## CLASS OF 1883 PRIZE FOR ENGLISH IN THE SCHOOL OF SCIENCE

Edward Howland Wardwell

## STINNECKE SCHOLARSHIP

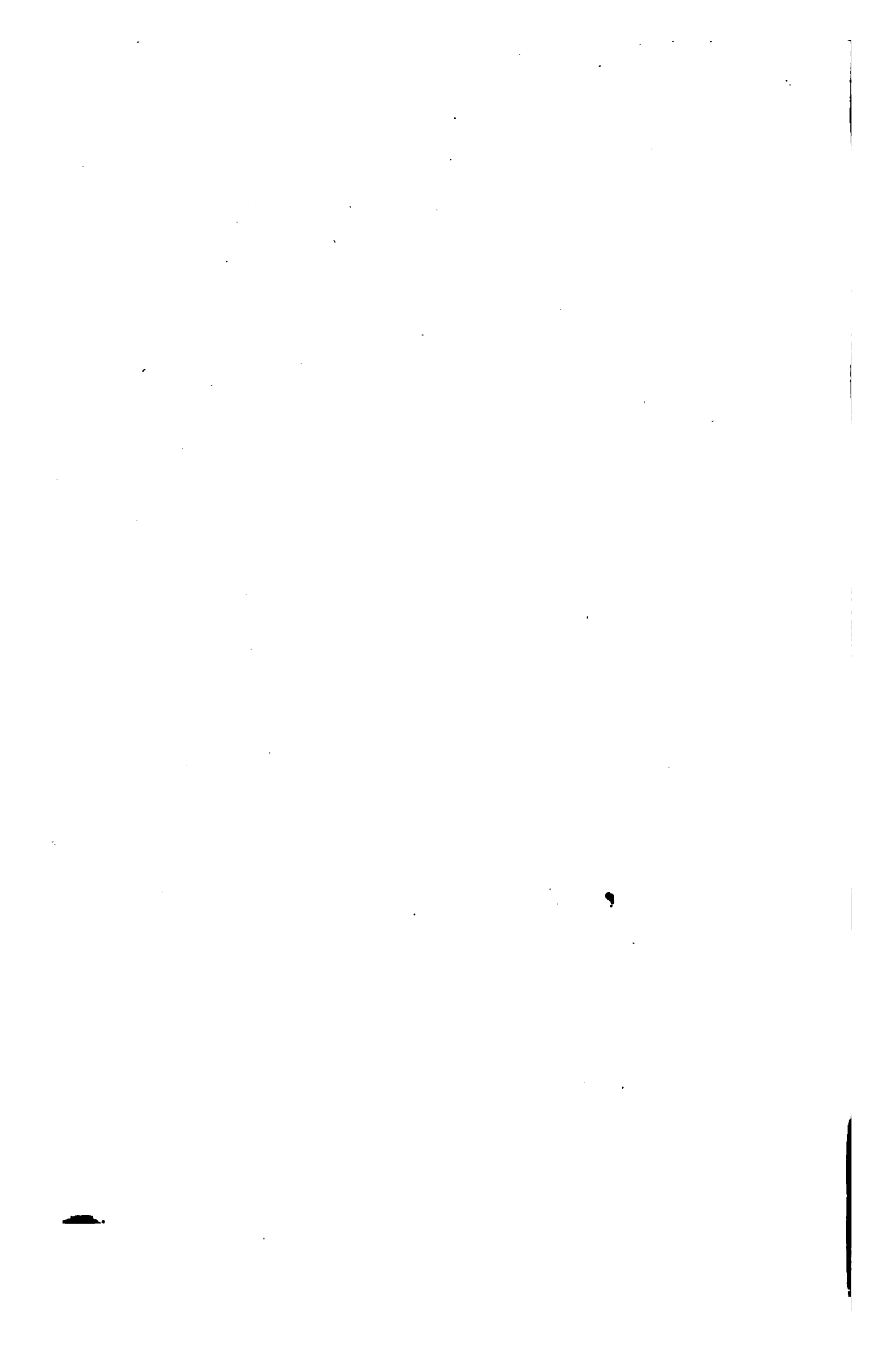
John Dean Bickford

## ORANGE SCHOLARSHIP FOR THE YEAR 1908-1909

Edward Stoddard Castle

## ERIE ENTRANCE PRIZE

Roger Earl Fish, 1912



## **PART X**

### **ALUMNI ASSOCIATIONS, LISTS OF STUDENTS, DIRECTORY, AND INDEX**



## ALUMNI ASSOCIATIONS

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ALUMNI ASSOCIATION OF NASSAU HALL.—Founded 1826.

*Chairman*, Hon. James R. Macfarlane, '78.

*Secretary*,

The Alumni Meeting is held in the Gymnasium on Commencement Day at 1.30 P.M., when the Alumni Dinner is served.

WESTERN ASSOCIATION OF PRINCETON CLUBS.

*President*, Joseph B. Shea, Esq., '85, Pittsburg, Pa.

*Secretary*, W. Pratt Dale, Esq., '99, Illinois Life Building, Louisville, Kentucky.

PRINCETON CLUB OF NEW YORK.—Founded 1866.

119-121 East 21st St.

*President*, Parker D. Handy, Esq., '79.

*Secretary*, W. F. McCombs, Jr., Esq., '98, 96 Broadway.

PRINCETON CLUB OF PHILADELPHIA.—Chartered 1898.

*Honorary President*, Hon. Craig Biddle, '41.

*President*, Dr. S. S. Stryker, '63.

*Secretary*, Edmund B. Seymour, Jr., Esq., '98, 909 Stephen Girard Building.

PRINCETON ALUMNI ASSOCIATION OF THE DISTRICT OF COLUMBIA  
AND SOUTHERN STATES.—Founded 1872.

*President*, Henry E. Davis, Esq., '76.

*Secretary*, Oliver Metzgerott, Esq., '98, 1110 F St., N. W.,  
Washington, D. C.

## PRINCETON CLUB OF WESTERN PENNSYLVANIA.—Founded 1875.

*President*, Hon. Nathaniel Ewing, '69.

*Secretary*, William A. Steinmeyer, Esq., 1902,  
1264 Frick Building Annex, Pittsburg, Pa.

## PRINCETON ALUMNI ASSOCIATION OF CINCINNATI.—Founded 1875.

*President*, James C. Ernst, '73.

*Secretary and Treasurer*, Walton C. Hill, '97, Union Trust Building.

## PRINCETON CLUB OF CHICAGO.—Founded 1876.

*President*, Bland Ballard, Esq., '80, Lake Forest, Ill.

*Secretary and Treasurer*, Alfred T. Carton, Esq., 1905, 4929 Greenwood Ave., Chicago, Ill.

## PRINCETON CLUB OF ST. LOUIS.—Founded 1876.

*President*, Edward F. Goltra, Esq., '87.

*Secretary*, David D. Metcalfe, Esq., 1904, 1401 Pierce Building.

## PRINCETON ALUMNI ASSOCIATION OF NEBRASKA.—Founded 1884.

*President*, Lowrie Childs, Esq., '91.

*Secretary*, William T. Laing, Esq., '99, 1012 New York Life Building,  
Omaha.

## PRINCETON ALUMNI ASSOCIATION OF LOUISVILLE.—Founded 1884.

*President*, John G. Cecil, Esq., '76.

*Vice-President*, John W. Barr, Jr., Esq., '85.

*Secretary*, Harry A. Strater, Esq., 1903, 1303 Third Ave.

CENTRAL PENNSYLVANIA ALUMNI ASSOCIATION OF PRINCETON  
UNIVERSITY.—Founded 1885.

*President*, Charles H. Bergner, Esq., '74.

*Secretary*, W. H. Musser, Esq., '96, 215 N. Second St., Harrisburg.

## PRINCETON ALUMNI ASSOCIATION OF MARYLAND.—Founded 1885.

*President*, W. Irvine Cross, Esq., '73.

*Secretary*, A. Hunter Boyd, Jr., Esq., 1900, B. and O. Law Department,  
Baltimore.

## PRINCETON CLUB OF TRENTON.—Founded 1886.

*President*, Hon. Frank S. Katzenbach, Jr., '89.*Secretary*, W. M. Dickinson, Esq., '97, 135 East State St.

## PRINCETON ALUMNI ASSOCIATION OF THE NORTHWEST.

Founded 1886.

*President*, Joseph Bartles, Esq., '68.*Secretary-Treasurer*, W. C. Motter, Esq., 1906, 230 Endicott Building,  
St. Paul, Minn.

## PRINCETON ALUMNI ASSOCIATION OF NORTHEASTERN PENNSYLVANIA.—Founded 1886.

*President*, Hon. Henry A. Fuller, '74.*Secretary-Treasurer*, Paul Bedford, Esq., '97, Coal Exchange Building,  
Wilkes-Barre, Pa.

## PRINCETON ALUMNI ASSOCIATION OF NORTHERN OHIO.

Founded 1887.

*President*, E. W. Haines, Esq., '66.*Secretary*, O. W. Upson, Esq., '95, 1310 11th St., Cleveland.

## PRINCETON CLUB OF NEWARK.—Founded 1894.

*President*, Hon. John R. Hardin, '80.*Secretary*, Stuart A. Young, Esq., 1902, 1078 Broad St.

## PRINCETON CLUB OF ALBANY AND VICINITY.—Founded 1889.

*President*, Rev. Charles A. Richmond, '83.*Secretary*, Andrew Thompson, Esq., '99, 53 Lake Ave., Albany.

## PRINCETON ALUMNI ASSOCIATION OF DELAWARE.—Founded 1892.

*President*, Hon. William C. Spruance, '52.*Secretary*, J. Frank Ball, Esq., '76, Bayard Building, Wilmington.

## PRINCETON ALUMNI ASSOCIATION OF CENTRAL NEW YORK.

Founded 1894.

*President*, Professor John Van Duyn, M.D., '62.*Secretary*, Wilbur Van Duyn, Esq., 1904, 20 White Memorial Building,  
Syracuse.

## PRINCETON ALUMNI ASSOCIATION OF WESTERN NEW YORK.

Founded 1894.

*President*, William B. Lee, Esq., '79.*Secretary*, Rev. G. B. F. Hallock, D.D., '82, 10 Livingston Park,  
Rochester.

## PRINCETON CLUB OF THE SOUTHWEST.—Founded 1895.

*President*, John H. Thacher, Esq., '95.*Secretary*, John M. Townley, Esq., '97, Second and Walnut Sts.,  
Kansas City, Mo.

## PRINCETON CLUB OF UNION COUNTY, NEW JERSEY.

Founded 1896.

*President*, Edward J. Patterson, Esq., '94.*Secretary-Treasurer*, Owen H. Fleming, Esq., 1904, Plainfield, N. J.

## ROCKY MOUNTAIN PRINCETON CLUB.—Founded 1897.

*President*, E. Salsbury Smith, Esq.*Secretary-Treasurer*, N. W. McIntyre, Esq., 1907, Colorado Building,  
Denver, Colo.

## PRINCETON ALUMNI ASSOCIATION OF NEW ENGLAND.

Founded 1897.

*President*, Dr. Harry M. Cutts, '80.*Secretary*, Hugh Miller, Esq., 1901, Lexington, Mass.

## PRINCETON ALUMNI ASSOCIATION OF TEXAS.—Founded 1897.

*President*, William B. Seeley, Ph.D., '79.*Secretary-Treasurer*, Charles C. Cresson, Jr., Esq., '95, Alamo Bank  
Building, San Antonio, Texas.

## PRINCETON ALUMNI ASSOCIATION OF ERIE.—Founded 1897.

*President*, William Spencer, Esq., '70.*Secretary*, Frank H. Payne, Esq., '91, care Metric Metal Co., Erie.

## PRINCETON ALUMNI ASSOCIATION OF INDIANA.—Founded 1898.

*President*, Charles R. Williams, Esq., '75.*Secretary*, Blythe Hendricks, Esq., 1902, 36 W. Eleventh St.,  
Indianapolis.



## PRINCETON ALUMNI ASSOCIATION OF SOUTH AFRICA.

Founded 1898.

*President*, E. Verne Richardson, '88*Secretary*, Rev. Clinton T. Wood, '92, Mission Institute, Wellington,  
Cape of Good Hope.

## PRINCETON CLUB OF CEDAR RAPIDS, IOWA.—Founded 1901.

*President*, Rev. E. R. Burkhalter, '62.*Secretary and Treasurer*, J. M. Ely, Esq., 1906.

## PRINCETON CLUB OF HAWAII.—Founded 1901.

*President*, John Waterhouse, '96.*Secretary*, Rev. Edward B. Turner, '96, 778 King St., Honolulu.

## PRINCETON ALUMNI ASSOCIATION OF SYRIA.—Founded 1902.

*President*, Franklin T. Moore, M. D., '91.*Secretary*, George B. Stewart, Jr., Esq., 1906, Syrian Protestant  
College, Beirût, Syria.

## PRINCETON ALUMNI ASSOCIATION OF GERMANY.—Founded 1902.

*Home Secretary*, Prof. George M. Priest, '94, Princeton.

## PRINCETON CLUB OF PARIS.—Founded 1903.

*President*, Persifor F. Gibson, Esq., '85.*Secretary*,

## PRINCETON ALUMNI ASSOCIATION OF THE ORANGES.

Founded 1903.

*President*, George M. McCampbell, Jr., Esq., '94.*Secretary*, M. Douglas Cole, Esq., 1904, 41 Munn Ave., East Orange,  
New Jersey.

## PRINCETON CLUB OF BUFFALO.—Founded 1903.

*President*, S. N. McWilliams, Esq., '94.*Secretary*, James L. Crane, Esq., '99, North Tonawanda, N. Y.

## PRINCETON ALUMNI ASSOCIATION OF TENNESSEE.—Founded 1905.

*President*, W. L. Granbery, Esq., '85  
*Secretary and Treasurer*, Walter H. Watkins, Esq., 1900,  
Chattanooga, Tenn.

## PRINCETON ALUMNI ASSOCIATION OF TOLEDO.—Founded 1905.

*President*, Hon. Orville S. Brumback, '77.  
*Secretary*, Walter C. Bond, Esq., 1905, 338 Summit St., Toledo, Ohio.

## PRINCETON CLUB OF SEATTLE.—Founded 1905.

*Chairman*, Chester F. Lee, Esq., '84.  
*Secretary*, James I. Colwell, Esq., 1904, 1518 First Ave., S., Seattle,  
Wash.

## PRINCETON CLUB OF SOUTHERN CALIFORNIA.—Founded 1906.

*President*, Harrington Brown, Esq., '76.  
*Secretary*, Willis I. Morrison, Esq., 1902, 141 North Madison Ave.,  
Pasadena, Cal.

## PRINCETON ALUMNI ASSOCIATION OF JAPAN.—Founded 1908.

*President*, Dr. James C. Hepburn, '32.  
*Secretary-Treasurer*, John Stewart Burgess, Esq., 1905, 3 Sanchome  
Mitoshirochi, Kanda, Tokyo, Japan.

## PRINCETON ALUMNI ASSOCIATION OF MONTCLAIR, N. J.

Founded 1908.

*President*, Robert S. Yard, Esq., '83.  
*Secretary*, Harry N. Reeves, Esq., '97, 103 Claremont Ave.,  
Montclair, N. J.

## STUDENTS OF THE UNIVERSITY

### STUDENTS IN THE GRADUATE SCHOOL

#### FELLOWS

- Brown, Fay Cluff, Lyons, Ind., 30 Park Pl.  
 A.B., Indiana University, 1904.  
 A.M., University of Illinois, 1905.  
 Ph.D., Princeton University, 1908.  
 Porter Ogden Jacobus Fellow in Physics.
- Cary, Lewis Robinson, Bowdoinham, Me., 13 Vandeventer Av.  
 B.S., University of Maine, 1901.  
 M.S., University of Maine, 1902.  
 Francis Hinton Maule Fellow in Biology.
- Crenshaw, James Llewellyn, Dermott, Ark., 115 H S  
 A.B., Centre College, 1907.  
 A.M., Centre College, 1908.  
 Harvard Fellow in Chemistry.
- Cummings, Louis Curtiss, Brooklyn, N. Y., Merwick  
 A.B., Princeton University, 1908.  
 University Fellow in Archæology.
- Daniel, Zaccheus, Princeton, N. J., 7 S Ed  
 B.S., Princeton University, 1908.  
 Thaw Fellow in Astronomy.
- Dulles, John Foster, Auburn, N. Y., Paris, France  
 A.B., Princeton University, 1908.  
 Chancellor Green Fellow in Mental Science.
- Green, Joseph Coy, Cincinnati, Ohio, Merwick  
 A.B., Princeton University, 1908.  
 Boudinot Fellow in History.
- Harrod, Samuel Glenn, Avon, Ill., 5 Nassau St.  
 A.B., Eureka College, 1903.  
 A.M., University of Chicago, 1908.  
 Special Fellow in Classics.

- Heermance, Radcliffe, Poughkeepsie, N. Y., Merwick  
 A.B., Williams College, 1904.  
 A.M., Williams College, 1906.  
 A.M., Harvard University, 1908.  
 Charles Scribner Fellow in English Literature.
- Henderson, William George, Louise Bridge, P. Q., Canada, C, E B  
 A.B., University of Manitoba, 1905.  
 J. S. K. Fellow in Mathematics.
- Hulbirt, Edwin Ray, Lovelton, Pa., 5 S Ed  
 B.S., Princeton University, 1908.  
 Teaching Fellow in Physics.
- Jones, Léonard Chester, New York, N. Y., Merwick  
 B.S., Princeton University, 1907.  
 Special Fellow in History.
- Krecker, Frederick Hartzler, East Orange, N. J., 64 Wiggins St.  
 A.B., Princeton University, 1904.  
 A.M., Cornell University, 1906.  
 Class of 1877 University Fellow in Biology.
- MacNeish, Harris Franklin, Chicago, Ill., 32 Wiggins St.  
 B.S., University of Chicago, 1902.  
 M.S., University of Chicago, 1904.  
 Teaching Fellow in Mathematics.
- Mathews, Robert Maurice, Indianapolis, Ind., 41 S Ed  
 A.B., Butler College, 1906.  
 Teaching Fellow in Mathematics.
- Mitchell, Howard Hawkes, Springfield, Mass., Merwick  
 Ph.B., Marietta College, 1906.  
 J. S. K. Fellow in Mathematics.
- Mitchell, Ulysses Grant, Lawrence, Kan., 29 Vandeventer Av.  
 A.B., State University of Kansas, 1906.  
 A.M., State University of Kansas, 1907.  
 Teaching Fellow in Mathematics.
- Pomeroy, John Calvin, Kincardine, Ontario, Canada, 1 S Ed  
 A.B., Queens University, Canada, 1907.  
 Teaching Fellow in Physics.
- Spaeth, Sigmund Gottfried, Philadelphia, Pa., 9 N Ed  
 A.B., Haverford College, 1905.  
 A.M., Haverford College, 1906.  
 Special Fellow in English.

- Spence, Bartholomew John, Chicago, Ill., 19 Bank St.  
 B.S., Northwestern University, 1905.  
 Class of 1860 Fellow in Experimental Science.
- Trumbower, Henry Roscoe, Passer, Pa., Merwick  
 A.B., Lehigh University, 1903.  
 A.M., Princeton University, 1908.  
 South East Club University Fellow in Social Science.
- VanHoesen, Henry Bartlett, Truxton, N. Y., Munich, Germany  
 A.B., Hobart College, 1905.  
 A.M., Princeton University, 1906.  
 Special Fellow in Classics.
- Westervelt, Walter W., Beemerville, N. J., Athens, Greece  
 A.B., Princeton University, 1908.  
 John Harding Page Fellow in Classics.
- Wright, Frederick Warren, Delaware, Ohio, 29 Vandeventer Av.  
 A.B., Wesleyan University, 1906.  
 A.M., Harvard University, 1908.  
 Special Fellow in Classics.

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### GRADUATE SCHOLAR

- Beal, Frederick Wahn, Hamilton, N. Y., 14 Park St.  
 Ph.B., Colgate University, 1902.  
 A.M., Colgate University, 1905.  
 Graduate Scholar in Mathematics.

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### GRADUATE STUDENTS

- Anderson, Carl Godfrey, Celina, Ohio, 6 Bank St.  
 A.B., University of Wooster, 1907.
- Armentrout, James Sylvester, Washington College, Tenn., 17 A S  
 A.B., Washington College, 1905.
- Aston, Arthur, Cedar Rapids, Iowa, 23 B S  
 A.B., Coe College, 1907.
- Baskerville, Charles Edward, Spicer, Minn., 205 H S  
 A.B., Bellevue College, 1906.
- Baxter, Edgeworth Bird, Augusta, Ga., 95 Mercer St.  
 A.B., Princeton University, 1890.

Blocher, Harry Haiber,	Dayton, Ohio,	305 H S
A.B., Wooster University, 1907.		
Boyer, Clarence Valentine,	Titusville, Pa.,	11 Park St.
B.S., Princeton University, 1902.		
Braskamp, Otto,	Alton, Iowa,	413 H S
A.B., Grinnell College, 1907.		
Bready, George Stuart,	Germantown, Pa.,	37 A S
A.B., Princeton University, 1907.		
Browne, Fred Zallicoffer,	Kosciusko, Miss.,	19 A S
Brownlee, Oliver Young,	Due West, S. C.,	6 Bank St.
A.B., Erskine College, 1907.		
Buchanan, William Douglas,	St. Louis, Mo.,	113 H S
A.B., Wooster University, 1907.		
Carpenter, Delma Rae,	Brightwood, Va.,	11 Univ. Pl.
A.B., Roanoke College, 1908.		
Chapin, Roy Vinet,	Prospect, Ohio,	69 B S
A.B., Wooster University, 1908.		
Chase, John Wallace,	Hanover, Ill.,	403 H S
A.B., Goe College, 1907.		
Cleland, John Scott,	Oakdale, Pa.,	199 Nassau St.
A.B., Muskingum College, 1908.		
Cooper, Edgar Claudius,	China Grove, N. C.,	11 Univ. Pl.
A.B., Roanoke College, 1907.		
Davies, Joseph Jones,	Utica, N. Y.,	6 Bank St.
A.B., Syracuse University, 1908.		
Davis, Asahel Judd,	Mountain Grove, Mo.,	65 B S
A.B., Kansas City University, 1907.		
Dressler, Arthur Joseph,	Auburn, Neb.,	C, B S
Ph.B., Bellevue College, 1907.		
Duff, George Morgan,	Carnegie, Pa.,	Murray-Dodge Hall
A.B., Princeton University, 1907.		
Finney, Samuel Guy,	Glassport, Pa.,	57 B S
A.B., Geneva College, 1905.		
Giles, Henry Edgar,	Wheeling, West Va.,	33 B S
A.B., Muskingum College, 1908.		
Gilmore, James,	Philadelphia, Pa.,	2031 N. Howard St., Phila., Pa.
A.B., Princeton University, 1906.		

Griffith, Gwilym Oswald,	Arddleen, Llanymynech, Wales,	5 A S
	Shrewsbury College, England.	
Halsey, Jesse,	Southampton, N. Y.,	33 A S
Hayman, Herbert Harry,	Caldwell, Idaho,	21 A S
	A.B., University of Wooster, 1906.	
Hoffman, Clarence Sidney,	Gratz, Pa.,	210 H S
	A.B., Albright College, 1907.	
Hulsizer, William Richey,	Asbury, N. J.,	8 S Ed
	A.B., Princeton University, 1907.	
Hyde, James Lewers,	Academia, Pa.,	26 A S
	Litt.B., Princeton University, 1905.	
Johnston, Archibald Anderson,	Mercer, Pa.,	45 B S
	Geneva College.	
Keller, Claudius Argyle,	Sparta, Ill.,	207 H S
	Ph.B., Heidelberg University, 1906.	
Krause, Arthur Krupp,	Lansdale, Pa.,	10 N R
	A.B., Princeton University, 1907.	
	A.M., Princeton University, 1908.	
Landes, Philip Sheeder,	Curitybe, Parana, Brazil, S. A.,	109 H S
	A.B., University of Wooster, 1907.	
Limesick, Frederick Buck,	Philadelphia, Pa.,	43 B S
	A.B., Princeton University, 1905.	
Losey, Leon Artemus,	Nelson, Pa.,	160 Mercer St.
	A.B., Princeton University, 1907.	
Louderbough, John Janvier,	Salem, N. J.,	8 N R
	A.B., Princeton University, 1907.	
McCleary, Boyd,	Amsterdam, N. Y.,	20 A S
	A.B., Williams College, 1907.	
Mackie, Alexander,	Philadelphia, Pa.,	201 H S
	A.B., Princeton University, 1907.	
McMartin, David,	Claremont, Minn.,	203 H S
	A.B., Macalester College, 1907.	
Matthews, Joseph Moses,	Charlotte, N. C.,	6 Bank St.
	A.B., Erskine College, 1907.	
Messler, Daniel Ivins,	Hightstown, N. J.,	17 Bank St.
	A.B., Princeton University, 1908.	
Morrow, Samuel Melville,	Pittsburg, Pa.,	303 H S
	A.B., Tarkio College, 1904.	

Orr, John,	Decatur, Mich.,	117 H S
A.B., Wooster University, 1907.		
Overholt, John D.,	Wooster, Ohio,	8 S W B
B.S., Wooster University, 1907.		
Perdue, William Lewis,	Greenville, Ala.,	11 Bank St.
B.S., Alabama Polytechnic Institute, 1907.		
Read, Charles Newman,	Pawtucket, R. I.,	Merwick
C.E., Princeton University, 1908.		
Reimer, Edward Franklin,	Easton, Pa.,	105 H S
A.B., Lafayette College, 1897.		
A.M., Lafayette College, 1900.		
Princeton Theological Seminary, 1900.		
Rhee, Syngman,	Jundong, Seoul, Korea,	111 H S
A.B., George Washington University, 1907.		
Rhodes, James Rutherford,	Newton, Iowa,	306 H S
A.B., Princeton University, 1908.		
Rodman, Charles Rutherford,	Tacoma, Wash.,	73 B S
A.B., Whitworth College, 1907.		
Rogers, William Fenna,	Pottsville, Ark.,	20 H S
A.B., Ouachita College, 1907.		
Schwenke, Clarence Henry,	Logan, Ohio,	38 A S
Ph.B., Wooster University, 1903.		
Simpson, Randolph Stewart,	Washington, D. C.,	Merwick
A.B., Princeton University, 1906.		
A.M., Princeton University, 1908.		
Stafford, LeRoy Hahn,	North Lima, Ohio,	110 H S
A.B., Heidelberg University, 1906.		
Stewart, Harris Johnston,	New Wilmington, Pa.,	35 B S
A.B., Westminster College, 1904.		
Stukes, Samuel Guerry,	Manning, S. C.,	63 B S
A.B., Davidson College, 1908.		
Sullenberger, Linn Perry,	Ponca, Neb.,	67 B S
A.B., Bellevue College, 1908.		
Sullivan, John Wesley,	Clarksville, Tenn.,	404 H S
A.B., Cumberland University, 1888.		
Ph.D., Cumberland University, 1898.		
Takahashi, Ryoza,	Akita, Japan,	95 Mercer St.
A.B., Waseda University, 1905.		



# GRADUATE STUDENTS

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Thompson, James Moore,	North Hope, Pa.,	309 H S
A.B., Grove City College, 1905.		
VanDyke, Frank,	Le Mars, Iowa,	202 H S
A.B., Denver University, 1908.		
Waggoner, Ralph Alden,	Stamford, Neb.,	109 H S
A.B., Park College, 1907.		
Wagner, David Denman,	Cedar Rapids, Iowa,	61 B S
A.B., Coe College, 1908.		
Waite, Joseph Raymond,	Warriors Mark, Pa.,	410 H S
A.B., Princeton University, 1907.		
Walker, Raymond Chester,	Mechanicsburg, Pa.,	400 H S
B.S., Albright College, 1902.		
A.B., Albright College, 1904.		

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STUDENTS IN THE GRADUATE SCHOOL... 91

## STUDENTS IN THE ACADEMIC DEPARTMENT

## ACADEMIC SENIOR CLASS

## CANDIDATES FOR THE A.B. DEGREE

Ankeney, Frederick Newcomer,	Clear Spring, Md.,	12 E B
Annin, Robert Edwards, Jr.,	South Orange, N. J.,	8 S W
Armour, Norman,	Princeton, N. J.,	184 L
Armstrong, George Alexander,	New York, N. Y.,	9 L P
Ballin, Douglas David,	New York, N. Y.,	3 S W B
Benedict, Herbert Williams,	West Pittston, Pa.,	11 N M R
Boas, Herbert Allan,	New York, N. Y.,	122 L
Booker, Lester Harry,	Helena, Mont.,	71 P
†Brady, Samuel Stansbury,	Baltimore, Md.,	63 '79 H
Buchanan, John Grier,	Pittsburg, Pa.,	91 P
Bunting, Aubrey Reeves,	Philadelphia, Pa.,	83 P
Burnett, Charles Hurd,	New York, N. Y.,	32 B
Butler, William Allen, III,	New York, N. Y.,	9 L P
Caldwell, Henry Sanders,	Pine Bluff, Ark.,	83 P
Cameron, William Roberts,	Irwin, Pa.,	34 '79 H
Carroll, Norman Francis,	Newark, N. J.,	72 B
Carver, Wallace Harper,	Princeton, N. J., 34 Vandeventer Av.	
Cass, Newton Russell,	Nichols, N. Y.,	5 E B
Chambers, Benjamin Bright,	Chambersburg, Pa.,	14 S M R
Chisholm, Corydon Stewart,	Princeton, N. J., 98 Mercer St.	
Cist, Charles Frank,	Cincinnati, O.,	30 P
Clark, John Holley, Jr.,	Flushing, N. Y.,	6 S W
Colborn, Andrew Jackson,	Frostburg, Md.,	6 E B
Conger, Arthur McCrea,	Rosemont, Pa.,	4 N D
Connett, Francis Speir,	South Orange, N. J.,	14 P
Cook, Joseph Alexander,	Montclair, N. J.,	1 S W B
Cooper, John Cobb, Jr.,	Jacksonville, Fla., 31 Nassau St.	
Couse, Henry,	Hancock, N. Y.,	17 S W
Coxe, Charles Shearman,	Utica, N. Y.,	52 '79 H
Craven, Thomas Stokes,	Philadelphia, Pa.,	5 S M R
Cunningham, Frank Loughran,	New York, N. Y.,	112 B

† Candidate for degree in February, 1910.

Dawbarn, Waring Lennox,	New York, N. Y.,	116 B
Dick, Harry Kissingen,	Reading, Pa.,	4 B
Dietrich, Harold Early,	Harrisburg, Pa.,	52 P
Dillon, Edward Aloysius,	Lawrence, Mass.,	24 '79
Dodd, Edward Mills,	Montclair, N. J.,	9 S W
Dodge, Bayard,	New York, N. Y.,	64 '79 H
Dodge, Cleveland Earl,	New York, N. Y.,	64 '79 H
Dougherty, Edwin Vernon, Jr.,	Haverford, Pa.,	52 '79 H
Dowd, Heman Laurence,	Orange, N. J.,	171 L
Drewes, Howard,	Philadelphia, Pa.,	4 S M R
Ehrehart, Charles Fisher,	Hanover, Pa.,	12 N M R
Ewing, Nathaniel, Jr.,	Bryn Mawr, Pa.,	86 Nassau St.
Farr, John, Jr.,	New York, N. Y.,	13 '79 H
Fenninger, Laurence,	Philadelphia, Pa.,	4 S M R
*Foster, William Earley	Atlantic Highlands, N. J.,	1 E W
Fox, Newton Kennedy,	Washington, D. C.,	64 L
Freese, Ambrose,	Pottstown, Pa.,	39 Univ. Pl.
Fry, Morton Harrison,	Ephrata, Pa.,	10 S E B
Gill, James Holton,	Steubenville, Ohio,	53 B
Gillespie, Thomas James, Jr.,	Pittsburg, Pa.,	73 P
*Gilmour, Howard Coombs,	Newark, N. J.,	43 L
Gilpin, Donald Newcomer,	Boyce, Va.,	31 Nassau St.
*Glass, John Purnell,	Montgomery, Ala.,	52 L
Glover, Samuel Reeves,	Haddonfield, N. J.,	8 S R
Gordon, Spencer,	Washington, D. C.,	7 N W
Graff, Peter,	Worthington, Pa.,	6 N D
Green, Dwight Phelps,	Fulton, Ill.,	7 S D
Groeneveld, John Axtell,	Butte, Mont.,	22 B
Harrison, John Ward,	Fort Worth, Tex.,	90 Nassau St.
Henderson, George,	Cumberland, Md.,	61 '79 H
Henry, Thomas Charlton,	Philadelphia, Pa.,	184 L
Hetzel, William Barr,	Pittsburg, Pa.,	15 S D
Hill, Richard Harrison,	New Castle, Ky.,	15 M D
Hinton, Sebastian,	Washington, D. C.,	5 N Ed
†Holsapple, Earle Taylor,	Hudson, N. Y.,	11 P
Howard, Lawrence,	Saint Paul, Minn.,	8 S W B
Huddleson, James Howard, Jr.,	Portland, Ore.,	7 S E B
Hutcheson, William Palmer,	Houston, Tex.,	15 S D
Hutchins, James Cadwell, Jr.,	Chicago, Ill.,	74 B

\* Candidate for degree in February, 1909.

† Candidate for degree in February, 1910.

Hutchinson, Charles Percy,	Trenton, N. J.,	42 B
†Hutchinson, Mahlon,	Georgetown, N. J.,	172 L
Jennings, Lacy Donoho,	Saint Louis, Mo.,	1 W B
Jones, James Chester, Jr.,	Saint Louis, Mo.,	15 B
Keen, Frank Adams,	Philadelphia, Pa.,	104 P
Kent, Platt,	New York, N. Y.,	80 P
Kerr, Edwin Silas Wells,	Wilkes-Barre, Pa.,	53 '79 H
Keys, William Anderson, Jr.,	New York, N. Y.,	122 L
King, Rolland Rose,	Bloomfield, N. J.,	52 P
Kolb, Frederick William,	Baltimore, Md.,	5 S R
La Roe, Wilbur, Jr.,	Perth Amboy, N. J.,	1 S E B
Laubach, Frank Charles,	Benton, Pa.,	1 M D
McGee, William Lewis,	Wilkesburg, Pa., 92 Stockton St.	
Mackie, Norman Story,	Philadelphia, Pa.,	22 '79 H
McWilliams, Norman Beattie,	Ossining, N. Y.,	3 N R
Maresi, Pompeo Margherita,	Brooklyn, N. Y.,	72 P
Maulsby, Henry Hanson,	Frederick, Md.,	23 B
Maury, James Robb, Jr.,	Philadelphia, Pa., 31 Nassau St.	
Mayer, Ferdinand Lathrop,	Indianapolis, Ind.,	74 B
*Mecabe, Ernest Wilson,	Orange, N. J.,	41 P
Medina, Harold Raymond,	Brooklyn, N. Y.,	72 P
Meese, David Osborne,	Mansfield, Ohio,	6 S W
Mulford, Roland Heishon,	Camden, N. J.,	32 B
Murray, Steuben Butler, Jr.,	Germantown, Pa.,	6 N W
Myers, Abraham Charles,	Williamsport, Pa.,	62 '79 H
Myers, Frank Claton,	Bermudian, Pa.,	10 S E B
Myers, William Heyward, Jr.,	Williamsport, Pa.,	62 '79 H
Nichols, Charles Herbert,	Trinidad, Col.,	10 S D
Niles, Frank Sergeant,	New Berlin, N. Y.,	7 M D
Northwood, Arthur,	Trenton, N. J.,	7 N R
Nutting, John Hugh,	Montclair, N. J.,	2 S W
Ober, Douglas,	Baltimore, Md.,	62 P
Ober, John Hambleton,	Baltimore, Md.,	62 P
Ogden, Elliott Matthews,	Milwaukee, Wis.,	12 B
Olcott, Gage,	Montclair, N. J.,	8 S W
Olds, Edward Clarence,	Fort Wayne, Ind.,	2 S D
Osborn, Henry Fairfield, Jr.,	New York, N. Y.,	162 L
Ottinger, William Nickerson,	Philadelphia, Pa.,	12 N W
Parsons, Richard Percival,	Garden City, N. Y.,	70 P

† Candidate for degree in February, 1910.

\* Candidate for degree in February, 1909.

Passarella, Michael,	Colora, Md.,	93 B
Peacock, James Craig,	Philadelphia, Pa.,	19 N W
Peirce, Caleb Clarence,	Philadelphia, Pa.,	11 B
*Pfeiffer, Timothy Newell	Merchantville, N. J.,	Dodge Hall
Phillips, Charles Kaufman,	Mohrsville, Pa.,	10 S R
Phraner, Spencer Wilson,	Bloomfield, N. J.,	18 N W
Plaut, L Simon,	Newark, N. J.,	52 L
Plunkett, Charles Taylor,	Adams, Mass.,	14 L
*Price, James Sanford,	Erie, Pa.,	12 N D
Quinn, John Randolph, Jr.,	Brooklyn, N. Y.,	111 B
Rankin, Edward Elmendorf,	Albany, N. Y.,	6 Nassau Inn
Rankin, Herbert Edward,	Albany, N. Y.,	6 Nassau Inn
Reynolds, Hewitt,	Cumberland, Md.,	61 '79 H
Richardson, Leonard Woods,	Albany, N. Y.,	11 B
Riddle, Robert Jemison, Jr.,	Nashville, Tenn.,	36 P
Roberts, Donald,	Brooklyn, N. Y.,	53 '79 H
Ropes, Ripley,	Morristown, N. J.,	21 B
Samuels, Arthur Hiram,	Hartford, Conn.,	104 P
Sanford, Arthur Hunt,	Mamaroneck, N. Y.,	23 B
Sanford, Ferdinand Doan,	Warwick, N. Y.,	61 P
†Schaff, Walter,	Allegheny, Pa.,	142 L
†Scott, Charles Hodge,	Princeton, N. J.,	56 Bayard Lane
Scott, Leighton Pearson,	Summit Hill, Pa.,	10 S R
Scul, John Irwin,	Somerset, Pa.,	15 N D
*Sewall, Campbell,	Houston, Texas,	3 S R
Shand, William,	Lancaster, Pa.,	6 E W
Shellabarger, Samuel,	Washington, D. C.,	2 W B
Shultz, Daniel Shultz,	Philadelphia, Pa.,	9 N R
Sichelstiel, Alfred Joseph,	Pittsburg, Pa.,	71 B
Sidwell, Paul,	Frankford, Ind.,	32 L
Silvers, William Russell,	Cranbury, N. J.,	9 N W
*Smith, Courtland Ninde,	Great Barrington, Mass.,	3 S R
Smith, Ritchie Hasbrouck,	Harrisburg, Pa.,	15 S W
Spencer, Charles DuPuy,	Erie, Pa.,	11 M D
Stern, Kenneth Gibson,	Westfield, N. J.,	14 N W
Stevenson, Philip Henry	Pittsburg, Pa.,	6 S D
†Stockton, Richard, III,	Princeton, N. J.,	2 W M W
Stohlmann, William Frederick,	Brooklyn, N. Y.,	64 B
Strange, Robert,	South Orange, N. J.,	3 N R

\* Candidate for degree in February, 1909.

† Candidate for degree in February, 1910.

Thomas, Isaac,	Pottstown, Pa.,	9 E W
Thomas, Ralph Llewellyn,	Lewisburg, Pa.,	9 S W
Thorburn, Grant,	Rockaway, N. J.,	21 B
Tomlinson, Paul Greene,	Elizabeth, N. J.,	86 Nassau St.
Trimble, Henry Weekes,	Montclair, N. J.,	6 M D
*Winans, James Macdonald,	Princeton, N. J.,	21 Morven St.
Wyckoff, Ernest Holt,	Stroudsburg, Pa.,	90 P
Zimmerman, Levi Saylor,	Lebanon, Pa.,	30 P
†Zinsser, William Herman,	New York, N. Y.,	54 L

## CANDIDATES FOR THE LITT.B. DEGREE

Adams, Carleton E,	Atlantic City, N. J.	6 N D
Adams, William Thomas, Jr.,	Corinth, Miss.,	63 B
Barchfeld, Elmer Andrew,	Pittsburg, Pa.,	16 M D
*Barler, Harold Augustus,	Chicago, Ill.,	20 N Ed
Black, Harry C,	Baltimore, Md.,	23 P
Blun, F Melville,	New York, N. Y.,	42 L
Boice, Arthur Dent,	Fort Worth, Texas,	64 L
Carpenter, Farrington Reed,	Hayden, Col.,	2 S E B
Carr, Burton James,	Springfield, Ohio,	43 '79 H
Chambers, James Wheaton,	Freehold, N. J.,	5 S R
Chaplin, Hugh,	Ridgewood, N. J.,	171 L
Chapman, Percy Addison,	Plainfield, N. J.,	6 S W B
*Corbin, Horace Kellogg,	Elizabeth, N. J.,	43 L
Dickinson, Clinton Roy,	Newark, N. J.,	104 B
Dixon, Fitz-Eugene,	Philadelphia, Pa.,	22 '79 H
Feick, Carl Adrian, Jr.,	Newark, N. J.,	153 L
Fiddler, Earle Thomas,	New Brighton, Pa.,	8 S R
*Fluhart, Theodore Lamar,	Dayton, O.,	20 Vandeventer Av.
Funk, Wilfred John,	Montclair, N. J.,	16 L
Gamble, Ralph Abernethy,	Yankton, S. Dak.,	123 L
Gay, John,	Philadelphia, Pa.,	86 Nassau St.
Hartshorne, Richard,	Newark, N. J.,	12 N W
Haven, William Le Roy, Jr.,	Morristown, N. J.,	12 S Ed
Ivins, Clinton Fox,	Plainfield, N. J.,	5 M D
Jamison, Ralph Eccles,	Greensburg, Pa.,	6 S D
Knauer, Clarence Edgar,	Atlantic City, N. J.,	71 P
Koch, Roscoe Richard,	Pottsville, Pa.,	90 P
Lawrence, Wayman Clarkson, Jr.,	Columbus, Ohio,	40 S Ed
Leeper, William Franklin,	Marietta, Ohio,	31 P

\* Candidate for degree in February, 1909.

† Candidate for degree in February, 1910.

Le Fevre, Cory Alfred,	Dayton, Ohio,	204 Nassau St.
*Luke, Charles Wilson,	New York, N. Y.,	108 P
†Lupfer, Robert N.,	Springfield, Ohio,	83 B
McNeely, Charles Wilson,	Philadelphia, Pa.,	95 P
*Mahn, Bertram Raymond,	Philadelphia, Pa.,	46 L
Matter, Milton,	Marion, Ind.,	95 P
Mosher, Orville Watson, Jr.,	New Richmond, Wis.,	6 Nassau Inn
Murray, James Wilson,	Piqua, Ohio,	2 W B
Ober, Albert Graham, Jr.,	Lutherville, Md.,	23 P
Phillips, Schuyler,	Yonkers, N. Y.,	54 L
Prizer, William Mann,	Philadelphia, Pa.,	24 '79 H
Rentschler, Fred Brant,	Hamilton, Ohio,	10 S D
Robinson, Hamilton Whitney,	Yonkers, N. Y.,	61 P
Rogers, Charles Henry,	New York, N. Y.,	109 P
Rupert, William Earl,	Pottstown, Pa.,	9 E W
Selby, Edgar Cantwell,	Coshocton, Ohio,	54 B
Sherrill, Howard Walden,	East Orange, N. J.,	6 E B
Smith, Harrison Albert,	Neenah, Wis.,	8 S E B
Sprague, Carl Otto Muller,	New York, N. Y.,	15 N D
Turner, Howard Griffin,	Paterson, N. J.,	53 B
Turner, Horatio Whitridge,	Princeton, N. J.,	31 Nassau St.
Vaughan, John Patrick,	Scranton, Pa.,	3 S Ed
Vezin, Charles, Jr.,	Yonkers, N. Y.,	105 P
Wagman, Lewis Bennett,	Saratoga Springs, N. Y.,	2 N D
Wallace, Ralph Ward,	Chicago Heights, Ill.,	7 S D
Walter, Albert Gustave,	Pittsburg, Pa.,	16 M D
Whaley, Francis Marion,	Charleston, S. C.,	32 '79 H

ACADEMIC SENIORS..... 213

## ACADEMIC JUNIOR CLASS

CANDIDATES FOR THE A.B. DEGREE<sup>1</sup>

†Alexander, Kenneth Deedes	Spring Station, Ky.,	8 W B
Allison, John Maudgridge,	Pittsburg, Pa.,	3 L P
Bamberger, Julian Maas,	Salt Lake City, Utah,	61 B
Belding, Frederick Norton,	Rockville, Conn.,	11 P
Benton, Dudley Chester,	Fargo, N. Dak.,	61 L

\* Candidates for degree in February, 1909.

† Candidate for degree in February, 1910.

‡ Candidate for degree in February, 1911.

Bergin, Francis Sebastian,	New Haven, Conn.,	30 S Ed
Bingley, George Althoff,	Watertown, N. Y.,	3 W B
Boyd, James, Jr.,	Harrisburg, Pa.,	31 '79 H
Brooks, Stephen Bonsal,	Baltimore, Md.,	12 '79 H
Butler, Lyman Collins,	New York, N. Y.,	161 L
Cadwell, Paul Newton,	Atlantic City, N. J.,	7 E M W
Cahill, Walter Louis,	New York, N. Y.,	172 L
Camp, Sewall Frederick,	Watertown, N. Y.,	11 S E B
Carter, John Lawrence,	Montclair, N. J.,	44 L
Close, Harold Wilberforce,	Dunmore, Pa.,	8 E M W
Colver, Frederic Beecher,	Tenafly, N. J.,	6 W M W
Conger, Richard Stockton,	Rosemont, Pa.,	5 N D
Critchlow, Francis Bascom,	Salt Lake City, Utah,	5 N W
Dennis, James Shepard, II,	Morristown, N. J.,	42 '79 H
Dodge, Donald Davidson,	Haymarket, Va.,	131 L
Eadie, James Suydam,	Flushing, N. Y.,	2 S W B
Efros, Jacob Stewart,	Lakewood, N. J.,	29 N Ed
Emery, John Mackie,	Morristown, N. J.,	44 B
Farr, Henry Bartow,	Short Hills, N. J.,	33 '79 H
Ferry, Louis Knowles,	East Orange, N. J.,	11 S W
Finch, Ernest Roosevelt,	New Rochelle, N. Y.,	13 S W
Findley, Everett Thornton,	Newark, N. J.,	10 W W
Fine, John,	Princeton, N. J.,	111 L
Fleming, William Lowrie,	New York, N. Y.,	51 B
Frazer, Robert Ewing,	Pittsburg, Pa.,	63 P
Fritts, Frank,	Chester, N. J.,	5 S W
Garrett, Guy Harper,	Reinersville, Ohio,	31 P
Gerlach, Acton,	Yonkers, N. Y.,	41 B
Gilmore, D. Percy,	New York, N. Y.,	12 S W
Hall, Melvin Adams,	New York, N. Y.,	71 L
Hamilton, Samuel Lowrie,	Wilmington, Del.,	11 S W
Harrer, Gustave Adolphus,	Briarcliff Manor, N. Y.,	31 William St.
Hastings, Warren Hardy,	New York, N. Y.,	5 S W B
Hastings, Walter Scott,	Snow Hill, Md.,	8 E M W
Hatfield, Walter Bossert,	Schwenkville, Pa.,	9 N R
Hazen, William Gardner,	New York, N. Y.,	9 S R
Helm, John Blakey,	Auburn, Ky.,	3 E B
Herrmann, Jesse,	Stirling, N. J.,	13 S M R
Hills, Robert,	Mifflintown, Pa.,	5 N M R
Horner, Burtis Singleton,	Lakewood, N. J.,	15 N W
Hughes, John Francis,	Bellows Falls, Vt.,	144 Nassau St.
Hunter, Stanley Armstrong,	Denver, Col.,	9 S R



Irwin, Chester Martindale,	Overbrook, Pa.,	5 N R
John, William Mestrezat,	Trinidad, Col.,	183 L
Jones, Herbert,	Chicago, Ill.,	151 L
Keeney, Orel Pope,	Elizabeth, N. J.,	16 B
Kelly, Harry Frederick,	Pittsburg, Pa.,	53 P
Keyes, Clinton Walker,	Monterey, Mass.,	16 N W
Kimball, Paul,	Chelsea, Mass.,	14 E W
King, John Theodore, Jr.,	Baltimore, Md.,	2 S W B
Kirkpatrick, John Alexander,	Trenton, N. J.,	17 N W
Lawrence, David,	Buffalo, N. Y.,	1 W W
Leake, Joseph Bryant,	New York, N. Y.,	45 U
Lloyd, Gardner Pleasants,	East Orange, N. J.,	144 L
Lowe, Lawrence Francis,	Cleveland, Ohio,	4 U P
McAdoo, Francis Huger,	Yonkers, N. Y.,	82 Nassau St.
McCord, William Wittick,	Chicago, Ill.,	6 E M W
McDermott, Malcolm Mallette,	Chattanooga, Tenn.,	92 B
MacFadyen, Donald MacKenzie,	Boston, Mass.,	1 N D
McMillan, Leighton Gaines,	Mobile, Ala.,	164 L
McPherson, John Finlay,	Lawrenceville, N. J.,	17 B
Mershon, Stephen Lyon, III,	Montclair, N. J.,	7 N M R
†Miller, George Norton, Jr.,	New York, N. Y.,	161 L
Mitchell, Spencer Trask,	Hartford, Conn.,	100 P
Norris, William Mitchell, Jr.,	Princeton, N. J.,	69 Alexander St.
Ober, Frank Benedict,	Lutherville, Md.,	71 L
Osborn, Frederick Henry,	New York, N. Y.	31 '79 H
Pennington, Hall Pleasants,	Baltimore, Md.,	12 M D
Pennington, James Andrew Gregg,	Baltimore, Md.,	112 L
Pope, Stanley Leroy,	Trenton, N. J.,	20 S W
Potter, Sheldon Cary,	Cleveland, Ohio,	82 Nassau St.
Read, Frederic Bliss,	Pawtucket, R. I.,	82 Nassau St.
Reed, Harold Francis,	Beaver, Pa.,	8 W B
Reed, Philip B.,	Clearfield, Pa.,	51 P
Richardson, William Emanuel,	Bernville, Pa.,	92 B
Rolston, Brown,	New York, N. Y.,	102 B
Sanborne, George Gates,	Philadelphia, Pa.,	1 N Ed
Schehr, Lazar,	Princeton, N. J.,	38 S Ed
†Scott, William Russell,	Pittsburg, Pa.,	45 U
Shimer, Stanley Gordon,	Middletown, N. Y.,	4 W M W
Sichelstiel, Bertram Leo,	Pittsburg, Pa.,	71 B
Sinclair, Donald Bunker,	New York, N. Y.,	7 E B

† Candidate for degree in February, 1911.

Small, Charles Russell,	Harrisburg, Pa.,	16 N W
Smith, Daniel Morris,	Atlantic City, N. J.,	51 B
Spelman, Walter Bishop,	Champlain, N. Y.,	17 S W
Spencer, George Frink Melvin,	Newark, N. J.,	43 B
Spring, Royce Riker,	Trappe, Md.,	8 W M W
Sprunt, James Laurence,	Wilmington, N. C.,	17 B
Stephens, Lee Walter,	Brooklyn, N. Y.,	20 B S
Stevenson, William Cooper,	Yonkers, N. Y.,	42 '79 H
Stewart, George Scott, Jr.,	Philadelphia, Pa.,	6 W M W
Stitt, Philip Hivling,	Milwaukee, Wis.,	12 S D
Stryker, Laurence Clarkson,	Bound Brook, N. J.,	3 W B
Sütter, Daniel,	Mount Holly, N. J.,	Hill
Taylor, James Swan,	Altoona, Pa.,	7 W M W
Terry, David John,	Philadelphia, Pa.,	7 S W
Thomson, William Kelty Cruickshank,	Lonaconing, Md.,	315 H S
Tiemann, Julian Leslie,	New York, N. Y.,	1 B
Todd, Russell Webster,	New York, N. Y.,	5 N R
Tonnellé, Theodore Mills,	New York, N. Y.,	73 P
Van Dyke, John Camp,	Milwaukee, Wis.,	121 L
Van Wagenen, Noël Bleecker,	Orange, N. J.,	12 S W
Veeder, Lyman Bradt,	Utica, N. Y.,	8 S W B
Vermilye, Herbert Noble,	Orange, N. J.,	43 B
Waller, James Breckenridge, Jr.,	Chicago, Ill.,	54 '79 H
Waller, Percy Elmer,	Skaneateles, N. Y.,	36 P
Watters, Philip Sidney,	Yonkers, N. Y.,	7 S W
Weeks, Richard Franklin,	New York, N. Y.,	22 L
Westenhaver, Edward Paull,	Cleveland, Ohio,	10 S W
White, Edward Hurley, Jr.,	New York, N. Y.,	124 L
Wilkins, Walter Maurice,	Buffalo, N. Y.,	20 N Ed
Wilson, Robert Smith,	Pittsburg, Pa.,	97 B
†Wilson, Walter Otis,	Chicago, Ill.,	132 L
Wolf, James Stanley,	New York, N. Y.,	94 B
Woodruff, Thomas Simonson,	Newton, N. J.,	3 E M W
Wyeth, Marion Sims,	New York, N. Y.,	42 U
Zimmer, Harry Edgar, Jr.,	Indianapolis, Ind.,	154 L
Zinsser, Rudolph,	New York, N. Y.,	103 B

## CANDIDATES FOR THE LITT.B. DEGREE

Applegate, Robert Ashworth,	Glenosborne, Pa.,	51 P
Bair, Paul Suydam,	Greensburg, Pa.,	63 P

† Candidate for degree in February, 1911.

Baldwin, Elliott Nelson,	Auburn, N. Y.,	103 B
Birkenhauer, Fredrick Waller,	Newark, N. J.,	9 W B
†Cannon, Henry White, Jr.,	New York, N. Y.,	80 P
Cunningham, George Thomas,	Norfolk, Va.,	141 L
Davies, Allan,	New York, N. Y.,	41 P
Duane, Richard Bache,	New York, N. Y.,	11 '79 H
†Easton, Mortimer Denison,	Arcola, N. J.,	84 P
Fillius, Richard Sabin,	Denver, Col.,	13 P
Finck, Edgar Moore,	Elizabeth, N. J.,	D, W B
Flammer, William Holzderber,	New York, N. Y.,	21 P
Frantz, Leroy,	New Rochelle, N. Y.,	111 L
Gault, Matthew, Jr.,	Baltimore, Md.,	51 L
Hanna, Charles Tibby,	Allegheny, Pa.,	34 B
Jackman, David Kilbourne, Jr.,	Poughkeepsie, N. Y.,	17 N W
Kendrick, Leslie Ray,	Denver, Col.,	13 P
Lee, Howard Albert,	Trenton, N. J.,	10 N D
Livingston, Robert Reginald,	Cheveot, N. Y.,	11 L P
Lyte, Thomas Griffith,	Kane, Pa.,	81 B
McCarthy, Walter Raymond,	Duluth, Minn.,	81 B
Meigs, Robert Rodgers,	South Bethlehem, Pa.,	13 '79 H
Page, Alanson Sumner,	Oswego, N. Y.,	7 E M W
Peacock, Clarence Neilson,	Pittsburg, Pa.,	A B
Percy, LeRoy Pratt,	Birmingham, Ala.,	Nassau Inn
Prescott, Rufus Alfred,	Keeseville, N. Y.,	7 N D
Rodes, Clifton,	Louisville, Ky.,	3 E M W
Rolston, Roswell Graves,	New York, N. Y.,	102 B
Siegling, Rudolph Campbell,	Charleston, S. C.,	182 L
Straus, Hugh Grant,	New York, N. Y.,	4 Nassau Inn
Thibaut, Frank Joseph,	New York, N. Y.,	33 L
Thompson, John Maurice,	Blairsville, Pa.,	37 Nassau St.
Van Dewater, Arthur Franklin,	Flushing, N. Y.,	8 W M W
Ward, Harold Haskins,	Orange, N. J.,	10 P
Ward, Walter Lester,	Orange, N. J.,	10 P
Warfield, William Smith, III,	Chicago, Ill.,	61 L
Warner, John Russell,	Covington, Ky.,	113 B
Wilson, Cecil Frederick,	Clearfield, Pa.,	44 B

ACADEMIC JUNIORS..... 161

† Candidate for degree in February, 1911.

## ACADEMIC SOPHOMORE CLASS

## CANDIDATES FOR THE A.B. DEGREE

Abbotts, William, Jr.,	Trenton, N. J.,	3 S W
Arnold, Nezza Nevello,	Dillsburg, Pa.,	6 N M R
Bament, Lawrence Maxwell,	New York, N. Y.,	20 M D
Bardsley, William Wright,	Upper Montclair, N. J.,	15 W W
Bickford, John Dean,	Columbus, Ohio,	14 S D
Biddle, Charles John,	Andalusia, Pa.,	1 L P
Buchanan, Harold Higgins,	Utica, N. Y.,	14 S W
Burr, Hugh Chamberlin,	Gloversville, N. Y.,	11 W B
Butts, Allison, Jr.,	Poughkeepsie, N. Y.,	20 E W
Carey, Joseph Jackson,	Brooklyn, N. Y.,	12 S E B
Carter, Reginald Loomis,	East Orange, N. J.,	13 B
Chisolm, James Julian,	Natchez, Miss.,	17 E W
Clark, Alexander Beattie,	Malden, Mass.,	80 Nassau St.
Cochran, Todd Dresser,	Johnstown, Pa.,	34 P
Collord, James Harold,	Buffalo, N. Y.,	7 S W B
Connelly, Marion Sims,	Brooklyn, N. Y.,	7 S R
Conner, George Russell,	Mt. Vernon, N. Y.,	75 U
Crawford, Evans,	Louisville, Ky.,	18 M D
Critchlow, George Arthur,	Salt Lake City, Utah,	3 W M W
Dale, Julian Kalfus,	Louisville, Ky.,	26 M D
Daub, John Justus,	Pittsburg, Pa.,	13 B
Dillon, Edward Saunders,	Woodbury, N. J.,	4 S E B
Disbrow, Harold Ball,	Lakewood, N. J.,	13 N D
Dwight, Maitland,	Convent Station, N. J.,	95 B
Eddy, William Woodbridge,	New Rochelle, N. Y.,	1 E M W
Edgar, Joseph Charles,	Lincoln, Neb.,	Nassau Inn
Elder, Robert Dull,	Leadville, Col.,	9 W W
Estes, Joseph Beecham,	New York, N. Y.,	4 W W
Gause, Beverley Roberts,	Wilmington, Del.,	1 S W
Graff, John Frank, Jr.,	Worthington, Pa.,	31 L
Granbery, William Langley, Jr.,	Nashville, Tenn.,	35 L
Hoes, Gouverneur,	Washington, D. C.,	8 M D
Holt, Horace,	New York, N. Y.,	24 B
Houston, Henry Aydelotte, Jr.,	Millsboro, Del.,	31 L
Hughes, Blackburn,	Charleston, S. C.,	41 L
Janvier, Ernest Paxton,	Philadelphia, Pa.,	10 E M W
Jayne, Wilfred Hudson, Jr.,	Lakewood, N. J.,	47 U

Johnston, James Marion, Jr.,	Washington, D. C.,	5 L P
Kennedy, George Edward,	Naugatuck, Conn.,	31 S E d
Kennedy, James Charles, Jr.,	Brooklyn, N. Y.,	5 S E B
Kennedy, Joseph Elliott,	Allegheny, Pa.,	27 M D
Knight, James Brookes,	St. Louis, Mo.,	7 L P
Krauthoff, Philip Chappell,	New York, N. Y.,	70 U
Lewis, Mead Allyn,	New York, N. Y.,	5 S E B
Lichtenstein, Harry Siegel,	New York, N. Y.,	7 B
Lionberger, John Shepley,	St. Louis, Mo.,	7 L P
Lytle, Scott Harrison,	New York, N. Y.,	9 E M W
Macfarlane, Howard Pettengill,	Tampa, Florida,	12 S W B
McIntire, Henry Gordon,	Helena, Mont.,	172 Nassau St.
MacMurdy, Robert Duncan,	New York, N. Y.,	E, E B
Macurda, William Hayward,	Watertown, Mass.,	11 E B
Maires, Thomas Ware,	Brooklyn, N. Y.,	15 E W
Mann, Joseph Francis,	Bloomfield, N. J.,	42 P
Marsh, James Ingraham,	Pittsburg, Pa.,	185 L
Mayers, Isaac,	Harrisburg, Pa.,	4 N R
Mead, Lawrence Myers,	Plainfield, N. J.,	20 P
Meaker, Samuel Raynor,	Carbondale, Pa.,	14 S D
Melick, Ulysses Grant,	Trenton, N. J.,	13 N M R
Meredith, William Morris, Jr.,	Princeton, N. J.,	8 Dickinson St.
Merle-Smith, Van Santvoord,	New York, N. Y.,	14 '79 H
Miller, LeRoy Baldwin,	Indianapolis, Ind.,	91 B
Milliken, William Mathewson,	Stamford, Conn.,	2 E W
Minch, Robert Francis,	Bridgeton, N. J.,	5 S W B
Monroe, Andrew Perrine,	Philadelphia, Pa.,	12 P
Morse, Harry Franklin, II,	New York, N. Y.,	22 P
Musser, James Coburn,	Akron, Ohio,	7 E W
Muzzey, William Munroe,	Philadelphia, Pa.,	1 L P
Muzzy, Henry Earle,	Paterson, N. J.,	5 E M W
Nicoll, William Leonard,	New York, N. Y.,	11 L P
Ober, Beverly,	Baltimore, Md.,	51 '79 H
Olcott, Charles Townsend,	New York, N. Y.,	13 S D
Paul, Theodore Sedgewick,	Philadelphia, Pa.,	32 P
Pierce, William Lennox, Jr.,	Englewood, N. J.,	60 P
Pierson, Norris Edward,	Stamford, Conn.,	3 S D
Porter, James Jackson,	New York, N. Y.,	41 '79 H
Raleigh, Stuart Francis,	Syracuse, N. Y.,	6 W B
Reeves, Bartow Van Dewater,	Jamaica, N. Y.,	9 W M W
Reigner, Charles Gottshall,	Pottstown, Pa.,	4 N R
Rogers, Ross,	Harrisburg, Pa.,	19 S W

Savage, Charles Chauncey, Jr.,	Philadelphia, Pa.,	5 L P
Schenck, Alexander Tilton,	Princeton, N. J., Princeton, N. J.	
Seeley, deBenneville Keim,	Englewood, N. J.,	60 P
Simons, Donald MacLaren,	Elizabeth, N. J.,	21 '79 H
Skidmore, Lemuel, Jr.,	Summit, N. J.,	92 P
Smith, Fulcher Perry,	Spartansburg, Pa.,	10 N W
Speers, William Ewing,	Montclair, N. J.,	20 P
Tams, James Elmore Moffett,	Trenton, N. J.,	5 B
Taylor, Leslie Alan,	Roselle, N. J.,	5 W B
Thompson, Julian Francis,	New York, N. Y.,	95 B
Tuttle, Friend Lines, Jr.,	Hawley, Pa.,	7 W W
Uhler, Alfred Mills,	Glen Ridge, N. J.,	6 W B
van Winkle, Cortlandt,	Buffalo, N. Y.,	3 L P
Vezin, Cornelius Delamater,	Yonkers, N. Y.,	62 L
Vredenburg, Eugene Harramond,	New York, N. Y.,	8 L P
Wallace, William Hockaday, Jr.,	Kansas City, Mo.,	25 P
Wells, Franklin Chamberlain, Jr.,	Bloomfield, N. J.,	42 P
Whaler, James Wellington,	Wilmington, Del.,	10 E M W
Wheeler, Edgar Carroll Throckmorton,	Montclair, N. J.,	9 W M W
Willouer, Aaron Lewis,	Morwood, Pa.,	1 S M R
Wilson, Philip Howard,	Princeton, N. J.,	73 Stockton St.
Winch, Simean Reed,	Portland, Ore.,	11 W B
Wing, John Daniel, II.,	New York, N. Y.,	2 U P
Woods, William Johnson,	Lewistown, Pa.,	77 U

## ACADEMIC SOPHOMORES.....

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## ACADEMIC FRESHMAN CLASS

## CANDIDATES FOR THE A.B. DEGREE

Annin, Robert Ogden,	Washington, D. C.,	N U
Arnett, John Hancock,	Philadelphia, Pa.,	15 Univ. Pl.
Arnold, Robert Franklin,	Dillsburg, Pa.,	22 S Ed
Baker, Daniel, Jr.,	Baltimore, Md.,	15 Dickinson St.
Baldwin, William Henry,	Wilmington, Del.,	10 S W B
Barry, Henry Adams,	Passaic, N. J.,	47 Univ. Pl.
Beach, Edwin Ely,	Boonton, N. J.,	24 Edwards Pl.
Bell, James Christy, Jr.,	New York, N. Y.,	47 Univ. Pl.
Benson, Byron David,	New York, N. Y.,	47 Univ. Pl.

Benton, Walter Greer,	Brooklyn, N. Y.,	41 Univ. Pl.
Berl, Eugene Ennalls,	Wilmington, Del.,	36 Wiggins St.
Berry, Allen Douglas,	Nashville, Tenn.,	35 L
Bertolet, John Allan,	Reading, Pa.,	80 Nassau St.
Biggs, Benjamin Thomas,	Middletown, Del.,	168 Nassau St.
Black, Robert Fagar,	Harrisburg, Pa.,	4 S D
Blair, Lawrence Dilworth,	Pittsburg, Pa.,	31 Univ. Pl.
Bluck, Paul Everest,	Hamilton, Bermuda,	28 Bank St.
Bosworth, Robert Graham,	Denver, Col.,	15 Univ. Pl.
Bowman, Frederic Quimby,	Philadelphia, Pa.,	30 U
Brent, Robert Innocent,	Pensacola, Fla.,	22 Vandeventer Av.
Bunzl, Julius Victor,	New York, N. Y.,	7 Park Pl.
Burk, Frederic Grater,	Philadelphia, Pa.,	Edwards Pl.
Bush, John Garland,	Montegut, La.,	31 Nassau St.
Butler, Charles Terry,	New York, N. Y.,	47 Univ. Pl.
Callery, William,	Pittsburg, Pa.,	Hill
Camp, Paul Van Santvoord,	Watertown, N. Y.,	47 Univ. Pl.
Campbell, Arthur Bradley,	London, England,	15 Univ. Pl.
Carruthers, John Franklin Bruce,	Carlisle, Pa.,	19 S W
Carter, Robert Day, Jr.,	Orange, N. J.,	15 Univ. Pl.
Cleveland, Charles Luther,	Ridgewood, N. J.,	28 Vandeventer Av.
Cobb, Henry Wellington, Jr.,	New York, N. Y.,	31 Nassau St.
Cooney, Peter Paul,	Scranton, Pa.,	3 S Ed
Cooper, Mark Anthony,	Boston, Mass.,	33 Edwards Pl.
Critchlow, Maurice Martin,	Salt Lake City, Utah,	37 Wiggins St.
Cross, Francis Ralston,	Baltimore, Md.,	31 Nassau St.
Cuyler, Theodore Ledyard, III,	New York, N. Y.,	16 Bank St.
Daly, Paul Gerard,	New York, N. Y.,	53 Univ. Pl.
Dawson, John Collins, Jr.,	Philadelphia, Pa.,	F, Hill
Dell, Burnham North,	Morristown, N. J.,	47 Univ. Pl.
Dickey, William Hamilton,	Cleveland, Ohio,	C, Hill
Duff, Joseph Miller, Jr.,	Carnegie, Pa.,	60 Univ. Pl.
Eddy, Condit Nelson,	Princeton, N. J.,	14 Park Pl.
Eddy, Charles Pierson,	Ridgewood, N. J.,	44 Vandeventer Av.
Elmendorf, Frank Willard,	South Orange, N. J.,	8 N M R
Ely, Mahlon Long,	Columbia, Pa.,	15 N W
Emmons, Peter Kenneth,	Monmouth Junction, N. J.,	
	Monmouth Junction, N. J.	
Ewing, Joseph Neff,	Bryn Mawr, Pa.,	45 Univ. Pl.
Farr, Barclay Harding,	West Orange, N. J.,	39 Univ. Pl.
Fish, Roger Earl,	Erie, Pa.,	Hill
Fitts, Joseph Cooke,	Washington, N. J.,	37 S Ed

Forst, Daniel Parry,	Trenton, N. J., 34 Vandeventer Av.
Foster, David Paulson,	Pittsburg, Pa., P, Hill
Franklin, Samuel Floyd,	Wilmington, Del., 11 S Ed
Gardiner, John Francis,	Philadelphia, Pa., Edwards Pl.
Garmany, George Mackenzie,	New York, N. Y., 36 Wiggins St.
Gile, Richards Dexter,	Colorado Springs, Col., 15 Univ. Pl.
Godwin, Frederick Marquand,	Roslyn, N. Y., 33 Edwards Pl.
Gosnell, Harpur Allen,	Baltimore, Md., 15 Dickinson St.
Green, Harrington,	Cincinnati, Ohio, 10 E W
Greenbaum, Meyer,	Ford City, Pa., 23 Madison St.
Halsey, Frank Davis,	Elizabeth, N. J., 8 S M R
Harrison, John De Hart,	Wyebrooke, Pa., 33 Edwards Pl
Henry, Charles Wolcott,	Philadelphia, Pa., 15 Univ. Pl.
Herron, Andrew Wilson, Jr.,	Pittsburg, Pa., 23 Bank St.
Heyn, Otto Peter, Jr.,	Stapleton, N. Y., V, U
Hirsch, Harold,	New York, N. Y., 18 Madison St.
Horton, Douglas,	Brooklyn, N. Y., 45 Vandeventer Av.
Houston, David Walker, Jr.,	Troy, N. Y., 32 Vandeventer Av.
Ingersoll, Harry,	Philadelphia, Pa., 11 U P
Irwin, Harry Barbour,	Washington, D. C., 18 E W
Irwin, Robert Forsythe, Jr.,	Lansdowne, Pa., Edwards Pl.
Johnson, Robert Wilkinson, Jr.,	Baltimore, Md., 31 Nassau St.
Judd, Wallace Fuller,	Warren, Ohio, 15 N M R
Kahler, Frederick August, Jr.,	Buffalo, N. Y., U, U
Kalbfleisch, Edward Dean,	Brooklyn, N. Y., 31 Univ. Pl.
Kelley, Don Morrison,	New York, N. Y., 31 Univ. Pl.
Kelly, Walter Howard,	Pittsburg, Pa., 24 B
King, Milton William,	Washington, D. C., 39 Univ. Pl.
King, Philip Mills,	New York, N. Y., 39 Univ. Pl.
Klipstein, Ernest Holton,	East Orange, N. J., E, Hill
Knott, Richard Gillmore,	Louisville, Ky., 12 Park Pl.
Koehler, Maurice Raymond,	Kingston, Pa., 19 S M R
Lawrence, Robert Rutherford,	Flushing, N. Y., 25 M D
Leal, Graham Arrowsmith,	Paterson, N. J., Edwards Pl.
McCauley, Thomas Hamilton,	Canandaigua, N. Y., 60 Univ. Pl.
McClintock, Earl Irvine,	Pittsburg, Pa., 42 Wiggins St.
McCormick, Cyrus,	Chicago, Ill., 31 Univ. Pl.
McCready, David Beattie,	Chester, N. Y., 28 Bank St.
Mackey, William Sturges,	Sedalia, Mo., 45 Univ. Pl.
McLanahan, Allen,	Lawrenceville, N. J., Lawrenceville, N. J.
McWilliams, Holden Chester,	Shamokin, Pa., 60 Univ. Pl.
McWilliams, Kimber Cleaver, Jr.,	Shamokin, Pa., 60 Univ. Pl.



Magill, Edward Alexander,	Chattanooga, Tenn.,	21 S Ed
Magoun, James Albert Hughes, Jr.,	Newark, N. J.,	Edwards Pl.
Martin, Richard Haywood,	Brooklyn, N. Y.,	19 Univ. Pl.
Moffat, Frank Everest,	Brooklyn, N. Y.,	41 '79 H
Moock, George William,	Philadelphia, Pa.,	17 S M R
Norman, Edwin,	Louisville, Ky.,	2 Nassau St.
Ormond, Alexander Thomas, Jr.,	Princeton, N. J.,	276 Nassau St.
O'Rorke, Fitz James Hastings,	Yonkers, N. Y.,	14 N M R
Orr, Robert Clement,	Evanston, Ill.,	Hill
Osgoodby, George Melvin,	New York, N. Y.,	168 Nassau St.
Parker, John Milton Grosvenor,	Lowell, Mass.,	15 Univ. Pl.
Patton, Robert Lucien,	Lexington, Ky.,	61 U
Plaut, Edward,	New York, N. Y.,	M, Hill
Pryor, Morris McKim,	Flushing, N. Y.,	Edwards Pl.
Pyne, Grafton Howland,	New York, N. Y.,	39 Univ. Pl.
Reck, Josiah Herbert,	Rock Island, Ill.,	10 Madison St.
Reiley, John Insley Blair, Jr.,	Phillipsburg, N. J.,	34 Vandeventer Av.
Riegel, Jacob, Jr.,	Philadelphia, Pa.,	53 Univ. Pl.
Robertson, Gilbert Stuart,	Princeton, N. J.,	8 Maple St.
Russell, James Alcorn,	Memphis, Tenn.,	14 Park St.
Santmyers, Selby Stevenson,	Wilmington, Del.,	1 S W
Schaller, Carleton Otto,	New York, N. Y.,	53 Univ. Pl.
Schenck, Charles Frederick,	Springfield, N. Y.,	29 A S
Seckel, Albert,	Riverside, Ill.,	15 Dickinson St.
Seery, Irving Peter,	Newark, N. J.,	37 Wiggins St.
Semmes, Raphael,	Baltimore, Md.,	33 Vandeventer Av.
Shafer, Samuel Robert,	Hagerstown, Md.,	19 E W
Shultz, Le Roy Shultz,	Philadelphia, Pa.,	15 S Ed
Siefke, Herman, Jr.,	Brooklyn, N. Y.,	33 N Ed
Sisson, Spencer Alec,	Erie, Pa.,	D, Hill
Smith, Henry Arthur,	Brooklyn, N. Y.,	'8 N Ed
Speers, Thomas Guthrie,	Montclair, N. J.,	47 Univ. Pl.
Speir, Francis Cecil,	New York, N. Y.,	39 Univ. Pl.
Stewart, William Hewitt, Jr.,	Cincinnati, Ohio,	Edwards Pl.
Stoddard, James Kent,	Mount Holly, N. J.,	19 Madison St.
Stokes, Thomas Ormsby,	Nashville, Tenn.,	41 Univ. Pl.
Stover, James Duckworth,	Little York, N. J.,	18 S M R
Sweeny, Harold John,	Trenton, N. J.,	35 N Ed
Taylor, Albert Allen,	Milburn, N. J.,	2 L P
Terry, Jesse Lee,	Huntsville, Ala.,	36 Wiggins St.
Thomas, Aubrey Lee,	Upper Montclair, N. J.,	22 Vandeventer Av.
Townsend, Reginald Townsend,	New York, N. Y.,	39 Univ. Pl.

Trevor, Thomas Wilson,	Cincinnati, Ohio,	Edwards Pl.
Tweddel, George Kay,	Philadelphia, Pa.,	29 S Ed
Wagner, William,	Newark, N. J.,	34 Wiggins St.
Ward, Herbert Henry, Jr.,	Wilmington, Del.,	37 Nassau St.
Warren, Harold Collins,	Swarthmore, Pa.,	12 Park Pl.
Watts, Alfred Miller,	Philadelphia, Pa.,	16 Vandeventer Av.
Waugh, Randall,	New York, N. Y.,	4 L P
Wells, Sheldon Sinclair,	Short Hills, N. J.,	31 Univ. Pl.
West, Randolph,	Princeton, N. J.,	M, U
Wilcox, Rollin Crawford,	Bloomington, Ill.,	60 Univ. Pl.
Willets, Robert Robbins,	Harrison, N. Y.,	53 Univ. Pl.
Williamson, Edward Harold,	Germantown, Pa.,	42 Wiggins St.
Willing, Joseph Kendall,	Philadelphia, Pa.,	41 N Ed
Wylie, Curtis Monteith,	Grand Rapids, Mich.,	39 Vandeventer Av.

ACADEMIC FRESHMEN ..... 148

## STUDENTS IN THE JOHN C. GREEN SCHOOL OF SCIENCE

### SCHOOL OF ELECTRICAL ENGINEERING

#### SECOND YEAR

Carson, John Renshaw, B.S., Princeton, 1907.	Sewickley, Pa.,	15 S M R
Cunningham, Frederick William, B.S., Princeton, 1907.	Point Pleasant, N. J.,	Merwick
Smith, Chandler Price,	Baltimore, Md.,	123 L

#### FIRST YEAR

Bergland, William Scott, B.S., Princeton, 1908.	Baltimore, Md.,	44 '79 H
Bockoven, Francis Harold, B.S., Princeton, 1908.	Basking Ridge, N. J.,	6 Bank St.
Ebert, St. Gem,	St. Louis, Mo.,	6 Bank St.
Harvey, Spencer Green, B.S., Princeton, 1908.	Orange, N. J.,	Merwick
Lothrop, George Van Ness, A.B., Princeton, 1908.	Detroit, Mich.,	6 Bank St.
Meseroll, J. Homer,	Glassboro, N. J.,	34 Wiggins St.
Norton, Philander, A.B., Princeton, 1907. A.M., Princeton, 1908.	Albion, N. Y.,	4 S W B

STUDENTS IN THE ELECTRICAL SCHOOL.....10

### SCHOOL OF SCIENCE SENIOR CLASS

#### CANDIDATES FOR THE B.S. DEGREE

Arnett, William Woodward, Jr.,	Philadelphia, Pa.,	101 P
Beam, John Cooke,	Paterson, N. J.,	86 Nassau St.
Berry, Allan Hall,	Toms River, N. J.,	7 W B

Blodgett, William Nelson,	Trenton, N. J.,	7 N R
Booth, Albert Edward,	Bradford, Pa.,	143 L
Breese, James Lawrence, Jr.,	Havre de Grace, Md.,	82 Nassau St.
Burk, Charles August David,	Philadelphia, Pa.,	3 B
Burk, Edwin Henry,	Philadelphia, Pa.,	42 B
Crosby, William Floyd,	San Rafael, Cal.,	6 Nassau Inn
Dunlop, Walter Grafton,	Washington, D. C.,	9 B
Findley, Paul Bruce,	Sewickley, Pa.,	13 E W
Kellogg, John Young,	Millburn, N. J.,	10 M D
Kimball, Harold,	Philadelphia, Pa.,	2 S E B
Martin, Alexander Tertius,	Germantown, Pa.,	44 '79 H
Milne, Alexander, Jr.,	White Plains, N. Y.,	9 N W
Moore, Edwin,	Danville, Pa.,	2 N D
Morrow, Herbert Sproul,	Wilmington, Del.,	2 S W
Olcott, Alfred Van Santvoord,	New York, N. Y.,	22 B
Surbrug, John Willard, Jr.,	Montclair, N. J.,	9 M D
Wilson, Philip Danforth,	Chicago, Ill.,	143 L

## CANDIDATES FOR THE C.E. DEGREE

Ackerson, Frederick Layton,	East Orange, N. J.,	39 S Ed
Baker, William Edgar, Jr.,	Greenwich, Conn.,	2 E M W
Bonner, David, Jr.,	Stamford, Conn.,	2 W M W
Bothwell, Edward Graham,	Allegheny, Pa.,	34 B
Boyd, Joseph Fulton, Jr.,	Chambersburg, Pa.,	34 '79 H
Brush, Joshua Cooley,	New York, N. Y.,	3 S W B
Budd, Daniel Spencer,	Chester, N. J.,	43 P
Campbell, Milton Argyle,	Plattsburg, Mo.,	75 B S
Chapman, John Lee,	Baltimore, Md.,	98 B
Dennis, Crowell Marsh,	Princeton, N. J.,	38 Wiggins St.
Dolph, Harold William,	Scranton, Pa.,	72 B
Este, Jonathan Dickinson,	Philadelphia, Pa.,	9 M D
Floyd, Nicoll, II,	Garden City, N. Y.,	70 P
Gordon, Stephen Robbins,	Lakeside, N. J.,	8 S E B
Gray, Silvia Thompson,	Pittsburg, Pa.,	104 B
Hallimond, William John,	Belmar, N. J.,	83 B
Hildebrant, Walter George,	New York, N. Y.,	2 E M W
House, Charles Lucius,	Salonica, Turkey,	15 S W
Howell, Alexander Robert,	New York, N. Y.,	2 S D
Jahn, Nicholas Firth,	Seattle, Wash.,	62 B
Kelley, Eugene Cornell,	Poughkeepsie, N. Y.,	54 B
Latta, William James, Jr.,	Philadelphia, Pa.,	12 B

## SCHOOL OF SCIENCE JUNIOR CLASS

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Lippincott, Jesse,	Woodstown, N. J.,	43 P
Little, Alfred Aeschimann,	Brooklyn, N. Y.,	64 B
MacDonald, John Donald,	New York, N. Y.,	5 E B
Peckham, Hildreth Robert,	San Diego, Cal.,	108 P
Perrine, Frank Symmes,	Cranbury, N. J.,	23 L
Pierce, Arthur Jay,	Dundee, N. Y.,	3 S W
Reynolds, Maxwell Kennedy,	Marquette, Mich.,	6 S W B
Rising, Simeon Marshall,	West Pawlet, Vt.,	3 S E B
Salsbury, Joseph Morrison,	Pittsburg, Pa.,	9 B
Scully, Rees Townsend,	Pittsburg, Pa.,	162 L
Seeley, George Percy, Jr.,	Englewood, N. J.,	153 L
Shaner, Charles Heller,	Boyertown, Pa.,	23 L
Sides, William Randolph,	Brooklyn, N. Y.,	3 S E B
Stauffer, Isaac Yost,	Boyertown, Pa.,	17 W W
Strong, Ludlow Potter,	Great Barrington, Mass.,	3 S M R
†Tibbott, Frederick Merrill,	Germantown, Pa.,	106 P
Trimble, Robert, Jr.,	Sewickley, Pa.,	34 S Ed
Vaughn, Robert,	Stamford, N. Y.,	62 B
Wagner, Edward Luther,	Princeton, N. J.,	31 William St.
Wiess, Harry Carothers,	Beaumont, Tex.,	15 B

SCHOOL OF SCIENCE SENIORS.....62

## SCHOOL OF SCIENCE JUNIOR CLASS

## CANDIDATES FOR THE B.S. DEGREE

Alexander, James Waddell, II,	New York, N. Y.,	54 '79 H
Baldwin, Clarence Truman,	Nyack, N. Y.,	10 N D
Belknap, William Cook,	Albany, N. Y.,	52 B
Brewer, Frank Dodge,	Glen Ridge, N. J.,	132 L
Dawson, Frederick Thomas,	Holyoke, Mass.,	5 S W
Entwisle, Robert Morgan,	Johnstown, Pa.,	5 W M W
Ewing, Frank Kinsey,	Georgetown, Conn.,	7 N D
Ferger, Henri Rabb,	Chattanooga, Tenn.,	3 E B
Frederick, Halsey Augustus,	Oberlin, Ohio,	4 W M W
Gibbs, Ralph Wickham,	Norwalk, Ohio,	133 L
Halsey, Woodruff Wendell,	Elizabeth, N. J.,	12 W B
Hays, Samuel,	Overbrook, Pa.,	32 '79 H

†Candidate for degree in February, 1910.

Janeway, Theodore Walser,	New Brighton, N. Y.,	4 S R
Jenkins, Henry Hillen,	Baltimore, Md.,	82 Nassau St.
Kirby, Walter Eugene,	New York, N. Y.,	14 W W
†McLean, Alan Dater,	New York, N. Y.,	27 N Ed
Parke, Louis Tarbert,	Philadelphia, Pa.,	31 B
Taylor, John,	New York, N. Y.,	52 B
†Townsend, Herbert Pell,	Washington, D. C.,	8 U P
Vail, John Insley Blair,	Blairstown, N. J.,	115 B
Van Arsdale, Henry, Jr.,	Newark, N. J.,	15 P
Whitman, Edward Bostick,	Edgefield, S. C.,	82 Nassau St.
Wight, Edward Hyatt,	Garrison, Md.,	12 M D

## CANDIDATES FOR THE C.E. DEGREE

Atkinson, Edwin Stanley,	Philadelphia, Pa.,	84 B
Aymar, John Wentworth, Jr.,	Springfield, Ill.,	172 Nassau St.
Ballin, Cyril Gustav,	New York, N. Y.,	141 L
Bamman, Frederick Charles,	Princeton, N. J.,	27 Chambers St.
Barr, Louis Albert,	Pittsburg, Pa.,	121 L
Baumgartner, Howard Lawrence,	Asbury Park, N. J.,	9 S M R
Bergen, Elston Hunt, Jr.,	Princeton, N. J.,	50 Nassau St.
Bradford, Frank Rumrill,	West Somerville, Mass.,	53 P
Buckingham, Henry Gum,	Memphis, Tenn.,	182 L
Causse, Andre Louis, Jr.,	Raleigh, N. C.,	101 B
Crowell, James Edgar,	East Orange, N. J.,	7 W M W
Denniston, Edward Evans,	Germantown, Pa.,	106 P
Donovan, Arthur John,	Detroit, Mich.,	5 N W
Dusenberry, James Dudley,	Tuckahoe, N. Y.,	22 L
Earle, Francis,	Elizabeth, N. J.,	5 M D
Egner, Carl,	Newark, N. J.,	9 S D
Flanigan, Edwin Brenton,	Wilkes-Barre, Pa.,	115 B
Giffin, John Franklin,	Orange, N. J.,	101 B
Gill, Harold Earle,	Brooklyn, N. Y.,	11 S E B
Gilmour, Hugh Kerr,	Washington, D. C.,	82 Nassau St.
Good, William Pelton,	Westwood, N. J.,	97 B
Grossman, Joseph,	New York, N. Y.,	11 E W
Hawley, Charles,	Detroit, Mich.,	6 E M W
Hayes, Ralph Victor,	Brooklyn, N. Y.,	5 E W
Heulings, Lloyd,	Moorestown, N. J.,	13 S W
Hinrichsen, Arthur Feick,	Newark, N. J.,	9 W B

† Candidate for degree in February, 1911.

## SCHOOL OF SCIENCE SOPHOMORE CLASS

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Hobbie, Archibald Tait,	Newark, N. J.,	13 N W
Horton, Ralph,	New York, N. Y.,	2 B
Johnson, Alba Boardman, Jr.,	Rosemont, Pa.,	12 W B
Jones, George Milton,	Oak Hill, W. Va.,	42-46 U
McPherrin, George Robert,	Berkley, Va.,	103 P
Mathews, Edward Nash,	New York, N. Y.,	133 L
Moore, James Terence,	Elmira, N. Y.,	12 E B
Ogle, Kenneth Laurance,	Indianapolis, Ind.,	154 L
Peacock, John P,	Plainfield, N. J.,	5 W M W
Pitman, Charles Francis,	Trenton, N. J.,	F, W B
Richardson, Edward Jones,	Baltimore, Md.,	112 L
Rowe, Reginald Manchester,	Brooklyn, N. Y.,	131 L
Slocum, Miles Standish,	Havana, Cuba,	116 B
Smith, William Palmer, Jr.,	Netherwood, N. J.,	10 U P
Sutton, John Sutton,	Indiana, Pa.,	50 P
Talcott, Wait Forbes,	Rockford, Ill.,	A, B
Tregloan, James Homer,	Livingston, Mont.,	2 S M R
Tyson, Frederic Hunter,	Glen Ridge, N. J.,	11 N D
Van Valzah, Henry Franklyn,	Clearfield, Pa.,	84 B
Warwick, Winfield Rogers,	Long Branch, N. J.,	43 '79 H
Welch, Thomas How,	Saint Paul, Minn.,	2 B
Whitlock, Willard Palmer, Jr.,	Elizabeth, N. J.,	33 L
Whitman, Walter Lyle,	Philadelphia, Pa.,	21 P
Winn, George Philip,	Nashua, N. H.,	3 S Ed
Woehr, Isidor Matthew,	Lakewood, N. J.,	4 N M R

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## SCHOOL OF SCIENCE SOPHOMORE CLASS

## CANDIDATES FOR THE LITT.B. OR B.S. DEGREE

Angell, Montgomery Boynton,	Rochester, N. Y.,	9 E B
Bachrach, Arthur Nattans,	New York, N. Y.,	7 B
Bangs, Felix Francisco,	Grand Forks, N. Dak.,	1 U P
Bard, Roy Emerson,	Chicago, Ill.,	79 U
Barr, Robert Sherman,	East Orange, N. J.,	21 M D
Bassett, Noel,	New York, N. Y.,	53 L
Boyd, Austin,	Philadelphia, Pa.,	11 E B
Bruen, William Walter,	Madison, N. J.,	1 E B

Bumsted, Roy Remmey,	Jersey City, N. J.,	5 E M W
Castle, Edward Stoddard,	East Orange, N. J.,	102 P
Clancy, Edwin Menefee,	Louisville, Ky.,	90 Nassau St.
Conner, Wayne Everett,	New York, N. Y.,	48 Mercer St.
Cooke, John Sedgwick,	Paterson, N. J.,	73 B
Cooke, Russell,	Warren, Ohio,	23 '79 H
Cookingham, Prescott Whitehouse,	Portland, Ore.,	9 E B
Craven, Frank Richards,	West Chester, Pa.,	53 L
Crossman, Peter Frederick,	Newark, N. J.,	163 L
Culbertson, Tingle Woods,	Sewickley, Pa.,	68 L
Deuel, Lake,	Omaha, Neb.,	3 N D
Dixon, Clifford Gordon,	Boonton, N. J.,	73 B
Dyer, Richard Taylor,	East Orange, N. J.,	94 P
Eldredge, Ralph Richards,	Marquette, Mich.,	3 N D
Endicott, George,	Orange, N. J.,	38 L
Eves, William, III,	Wilmington, Del.,	1 W M W
Ewing, Lawrence,	Redding, Conn.,	73 U
Fellows, Olin Burt,	Middletown, N. Y.,	1 W M W
Flammer, Harold,	New York, N. Y.,	14 B
Flather, William James, Jr.,	Washington, D. C.,	14 B
Geddis, Robert Hamilton,	Pittsburg, Pa.,	16 E W
Gillon, Wilfred Harton,	Brooklyn, N. Y.,	16 W W
Gray, Edward, Jr.,	Newark, N. J.,	94 P
Gray, Harold Reid,	New York, N. Y.,	22 P
Griffith, Major Dison,	Jenkintown, Pa.,	10 N R
Hamilton, Ferris Fleming,	Pittsburg, Pa.,	32 P
Handy, Cortlandt Waite,	New York, N. Y.,	14 '79 H
Harrison, Rufus Freeman,	Livingston, N. J.,	33 P
Hartshorne, Hugh, Jr.,	Jersey City, N. J.,	8 E W
Harvey, Campbell,	Detroit, Mich.,	33 P
Harvey, Harold Miller,	Grand Rapids, Mich.,	40 P
Hodges, Henry Green,	Wilmington, Del.,	80 Nassau St.
Holley, Lee Alexander,	New York, N. Y.,	19 M D
Howe, LeRoy Kent,	New York, N. Y.,	93 P
Howell, Kenneth Barberie,	East Orange, N. J.,	22 M D
Hughes, Walter Lee,	Trenton, N. J.,	20 N W
Idema, Walter Doomink,	Grand Rapids, Mich.,	40 P
Imhoff, Richard Hudson,	Hopewell, N. J.,	13 W W
Jamison, Robert Palmer,	Greensburg, Pa.,	80 Nassau St.
Jessup, Everett Colgate,	Brooklyn, N. Y.,	65 B
Kiefer, Karl Ziegler,	Newark, N. J.,	9 E M W
Kistler, Robert Harrison,	Lansford, Pa.,	1 E M W



Lackey, Louis Raymond,	Uniontown, Pa.,	9 S E B
Laird, William Malcolm,	Pittsburg, Pa.,	12 E W
Lambert, John David Wooster,	St. Louis, Mo.,	90 Nassau St.
Lane, Martin Donald,	Wilmington, Del.,	96 B
Larkin, Francis Rahm,	New York, N. Y.,	93 P
Lawrence, Charles Colton,	New York, N. Y.,	11 Alexander St.
Libovitz, Barnem,	Scranton, Pa.,	2 N Ed
Lit, David Jack,	Meadowbrook, Pa.,	186 L
Macartney, James Wilkinson,	Washington, D. C.,	11 S D
Macdonald, Ronald,	Danville, Ill.,	152 L
McKaig, Donald,	Pittsburg, Pa.,	142 L
Maher, Arthur Paul,	Roanoke, Va.,	107 P
Miller, Marshall Philo,	Ottumwa, Iowa,	9 N M R
O'Donoghue, Michael Thomas,	Lowell, Mass.,	28 N Ed
O'Hara, Edward Arthur,	Syracuse, N. Y.,	70 U
Payne, Bruce Bullard,	Wilkes-Barre, Pa.,	67 U
Penney, Garner West,	St. Louis, Mo.,	181 L
Pinckard, Peter McArthur,	Birmingham, Ala.,	12 U P
Prescott, Roger Baker,	Keeseville, N. Y.,	73 U
Prettyman, George William Lyman,	Fort Myer, Va.,	96 B
Root, George Frederick,	New York, N. Y.,	63 U
Rowe, Harold,	New York, N. Y.,	90 Nassau St.
Seggermann, Frederick Timpson,	New York, N. Y.,	66 L
Sellman, Jonathan Lawrence,	Baltimore, Md.,	12 W W
Shellito, Judd Campbell,	Independence, Iowa,	4 W B
Sloane, George,	New York, N. Y.,	36 L
Smith, Percival Cuthbert,	Philadelphia, Pa.,	6 W W
Smith, Rollin Leonard,	Minneapolis, Minn.,	5 U P
Smith, William Wallace,	Clearfield, Pa.,	71 U
Souder, Donald Malcolm,	Overbrook, Pa.,	15 L
Strong, William,	Evanston, Ill.,	23 '79 H
Talbott, Harvey Sherman,	Indianapolis, Ind.,	91 B
Tarbell, Franklin Scott,	St. Davids, Pa.,	73 U
Thomas, George Comyns, Jr.,	Elizabeth, N. J.,	21 '79 H
Tilton, Harold Skinner,	New York, N. Y.,	3 W W
Van Deventer, Joseph Neff,	Netherwood, N. J.,	7 S R
Wallace, Edwin Francis,	New York, N. Y.	12 S E B
Wangler, Albert McCreery,	Flushing, N. Y.,	5 W B
White, Stephen Vincent,	Dorchester, Mass.,	168 Nassau St.
Whiteley, Joseph Osborne,	York, Pa.,	72 L
Winant, Clinton Darlington,	New York, N. Y.,	6 U P
Woodhull, Josiah Townsend, Jr.,	San Antonio, Texas,	21 L
Zimmerman, Stanley Snyder,	Duncannon, Pa.,	4 S W

## CANDIDATES FOR THE C.E. DEGREE

Baiter, Roland William,	New York, N. Y.,	36 L
Bell, Harold Sill,	Olean, N. Y.,	12 S W B
Bennett, Ira Fuller,	Chicago, Ill.,	76 U
Bickford, Percy Reeves,	Princeton, N. J., 30 Vandeventer Av.	
Birkhoff, George, III,	Chicago, Ill.,	49 U
Booth, Alfred Walter,	Brooklyn, N. Y.,	3 M D
Brady, Frank Aloysius,	Pittsburg, Pa.,	11 N D
Bredemus, John,	South Bend, Ind.,	16 N Ed
Buzby, Arthur Dudley,	New York, N. Y.,	50 U
Carlborg, Herbert Gus,	Union City, Pa.,	10 N W
Carpenter, Joseph Herbert, Jr.,	Ossining, N. Y.,	16 B
Childs, William Augustus, Jr.,	Englewood, N. J.,	134 L
Clark, Charles Edwin, Jr.,	Philadelphia, Pa.,	10 E B
Clark, Theobald Forstall,	Philadelphia, Pa.,	12 P
Columbia, Curtis Fields,	New York, N. Y.,	35 P
Cornish, Albert Campbell,	Trenton, N. J.,	20 N W
Coxe, Francis Travis,	Philadelphia, Pa.,	38 L
Craig, Arthur Hegeman,	Waldwick, N. J.,	114 B
Creighton, George Watson,	Altoona, Pa.,	4 E M W
Cunningham, Logan,	Washington, D. C.,	9 S W B
Deeves, Edwin Pratt,	New York, N. Y.,	7 U P
Dice, Agnew Thomson, Jr.,	Reading, Pa.,	63 U
Dresser, Carl Kirsch,	Bradford, Pa.,	80 Nassau St.
Eaton, Walter Bradley,	New York, N. Y.,	90 Nassau St.
Elsworth, Edward, Jr.,	Buffalo, N. Y.,	2 M D
Este, Sydney van Nostrand,	Philadelphia, Pa.,	2 M D
Evans, Stanley Seelye,	Englewood, N. J.,	24 L
Feigenspan, Edwin Christian,	Newark, N. J.,	168 Nassau St.
Fell, Harold Bertels,	Wilkes-Barre, Pa.,	67 U
Fillebrown, Thomas Scott,	Washington, D. C.,	26 N D
Fish, William Nicholas,	Philadelphia, Pa.,	10 W M W
Fox, Edwin Tunncliffe,	New Rochelle, N. Y.,	33 '79 H
Gallaher, William Quarrier,	Charleston, W. Va.,	51 '79 H
Getty, Lorenzo Todd,	New York, N. Y.,	79 U
Haberman, Sylvester,	New York, N. Y.,	20 N Ed
Hay, John Lewis, Jr.,	Newark, N. J.,	10 L P
Heacock, Clarence Joseph,	Gloversville, N. Y.,	19 M D
Hentz, Frederick Walter,	Philadelphia, Pa.,	72 L
Heyl, Edward Randolph,	Washington, D. C.,	O, U
Hoffstot, John Gideon,	New York, N. Y.,	90 Nassau St.

Humphrey, Karl,	Providence, R. I.,	2 E B
John, Robert Randall,	St. Davids, Pa.,	4 E M W
Jones, Carl Waring,	Minneapolis, Minn.,	92 P
Jones, Spencer Ainsworth,	Belleville, N. J.,	10 W M W
Kreutzberg, Edgar William Charles,	Trenton, N. J.,	B, W B
Lewis, Philemon Stout,	Springfield, Ill.,	11 S D
McAllister, Douglas Holly,	Brooklyn, N. Y.,	42 L
McCrohan, John,	Newport, R. I.,	6 S R
Macgregor, Alexander,	Malogawatch, N. S., Canada,	82 B
Mack, Paul Wilmer,	Indiana, Pa.,	3 W M W
McLean, Archibald, III,	Brooklyn, N. Y.,	10 N M R
McLeod, Donald Mather,	Germantown, Pa.,	90 Nassau St.
Marlor, Charles Christman,	Port Richmond, N. Y.,	K, U
Mierow, Frederick Cramer,	Lakewood, N. J.,	1 N M R
Moffat, John Wise,	Montclair, N. J.,	41 L
Otten, Frederick George,	Brooklyn, N. Y.,	20 N Ed
Parke, Samuel Reynolds, Jr.,	Philadelphia, Pa.,	H, U
Parker, Myron Melvin, Jr.,	Washington, D. C.,	68 L
Perry, Franklin,	Newtown, N. Y.,	35 P
Porter, Guy Jonathan,	Newton, Mass.,	4 M D
Prince, Edmond Lafayette, Jr.,	Wilmington, N. C.,	81 P
Rheinstein, Alfred,	New York, N. Y.,	82 B
Robbins, Edward Hanmer,	Lee, Mass.,	9 S E B
Roche, Robert Thiery,	East Orange, N. J.,	102 P
Ross, Thomas Gillespie,	Asbury Park, N. J.,	11 N W
Rowland, James Harvey, II,	Baltimore, Md.,	66 L
Schauffler, Henry Albert,	New York, N. Y.,	24 M D
Serfas, Lloyd Clarence,	Effort, Pa.,	6 S R
Smith, Harry Barnett,	Sedalia, Mo.,	181 L
Smith, Robert Hall, Jr.,	Aberdeen, Md.,	9 S W B
Sparks, Walter Russell,	Camden, N. J.,	2 E B
Spicer, Allen Wood,	Dexter, N. Y.,	16 S M R
Stafford, Franklin Hammill,	New York, N. Y.,	24 L
Stewart, Louis, Jr.,	New York, N. Y.,	81 P
Taggart, William Louis,	Indianapolis, Ind.,	21 L
Taylor, Alan Kirk,	Brownsville, Pa.,	20 W W
Tracy, William Richmond,	Scranton, Pa.,	183 L
Valentine, Richard Henry,	Stafford Springs, Conn.,	4 S W
Waterman, William Bullock,	Providence, R. I.,	6 U P
Wilkins, Benjamin Ogden,	Port Chester, N. Y.,	34 P

## SCHOOL OF SCIENCE FRESHMAN CLASS

## CANDIDATES FOR THE LITT.B. OR B.S. DEGREE

Adams, Crittenden Hull,	New York, N. Y.,	47 Univ. Pl.
Adams, Henry Clinton,	Bedford Station, N. Y.,	10 Madison St.
Bailie, Raymond Livingstone,	Pittsburg, Pa.,	47 Univ. Pl.
Baker, William Munford,	New York, N. Y.,	11 Alexander St.
Baldwin, Ralph Labagh,	Nyack, N. Y.,	39 Vandeventer Av.
Ballard, Frederick Edward, Jr.,	Bay Shore, N. Y.,	33 Edwards Pl.
Barkhorn, Leon Joseph,	Newark, N. J.,	37 Wiggins St.
Barnes, Arnold Appleton,	Charleston, W. Va.,	33 Vandeventer Av.
Bartlett, Robert Dixon,	Baltimore, Md.,	15 Dickinson St.
Belknap, Chauncey,	New York, N. Y.,	39 Vandeventer Av.
Belknap, Maitland,	New York, N. Y.,	19 Univ. Pl.
Bell, Charles James,	Pittsburg, Pa.,	44 Vandeventer Av.
Bergen, Francis Livingston,	Somerville, N. J.,	32 Vandeventer Av.
Bilhuber, Ernest August,	Maywood, N. J.,	25 N Ed
Bissell, Addison Hayes,	Newark, N. J.,	22 Edwards Pl.
Boker, Hermann Delius,	New York, N. Y.,	K, Hill
Breed, Winthrop Newhall,	Louisville, Ky.,	34 Vandeventer Av.
Brigham, Carl Campbell,	Dorchester, Mass.,	45 Univ. Pl.
Brown, Hamilton,	New York, N. Y.,	L, Hill
Brown, Thornton Kirkland,	Flushing, N. Y.,	39 Univ. Pl.
Bryan, Brantz Mayer,	Washington, D. C.,	45 Vandeventer Av.
Bunn, George Wallace, Jr.,	Springfield, Ill.,	Q, Hill
Burke, Ronald John,	Buffalo, N. Y.,	11 Alexander St.
Burnett, Charles Effingham,	Buffalo, N. Y.,	45 Univ. Pl.
Butler, John Crosby,	Yonkers, N. Y.,	31 Univ. Pl.
Caffery, Edward Webster,	Franklin, La.,	27 Univ. Pl.
Carroll, Allan Crosby,	Warwick, N. Y.,	14 M D
Chrystie, Phinehas Prouty,	Bryn Mawr, Pa.,	39 Univ. Pl.
Coe, Sayers,	Newark, N. J.,	45 Univ. Pl.
Connett, Eugene Virginus, III,	South Orange, N. J.,	J, Hill
Cooper, Walter Sheppard,	Newark, N. J.,	37 Wiggins St.
Craig, Ross Mackenzie,	Jersey City, N. J.,	Edwards Pl.
Davies, Uriah Morgan,	Oshkosh, Wis.,	11 Alexander St.
Davis, Henry Chandler, Jr.,	New York, N. Y.,	11 Alexander St.
Davis, John Morton,	Waco, Texas,	Q, Hill
Davis, William Faber,	Orange, N. J.,	22 Edwards Pl.
Day, Henry Stockwell,	Montreal, Canada,	15 Univ. Pl.

Denny, Arthur Armstrong, II,	Seattle, Wash.,	Hill
Devereux, Alvin,	New York, N. Y.,	31 Univ. Pl.
de Witt, Wallace,	Erie, Pa.,	39 Univ. Pl.
Dieter, Robert Rennert,	Baltimore, Md.,	19 Univ. Pl.
Dixon, Max Muller,	Dixondale, Va.,	32 Vandeventer Av.
Dyckman, Heroy Maxwell,	Orange, N. J.,	31 Univ. Pl.
Dyer, Lucien Beverstock,	Hoopeston, Ill.,	34 Vandeventer Av.
Eagle, Henry,	New York, N. Y.,	28 Vandeventer Av.
Easton, Gerald,	New York, N. Y.,	15 Univ. Pl.
Ennis, Harvey Leon,	Wilmington, Del.,	26 Edwards Pl.
Ferris, Lawrence,	New York, N. Y.,	G, U
Fisk, Harvey Edward, Jr.,	New York, N. Y.,	53 Univ. Pl.
Fitton, Cyrus James,	Hamilton, Ohio,	37 Wiggins St.
Fitton, Donald Webb,	Hamilton, Ohio,	37 Wiggins St.
Foster, George Peter,	Chicago, Ill.,	168 Nassau St.
Fowler, Alvan Luther, Jr.,	New Rochelle, N. Y.,	14 Park Pl.
Francke, Kurt George Gustave,	Indianapolis, Ind.,	53 Univ. Pl.
Friedmann, Augustus Lawrence,	Newark, N. J.,	37 Wiggins St.
Gamble, Sidney David,	Cincinnati, Ohio,	37 Nassau St.
Gardner, Russell Eugene, Jr.,	St. Louis, Mo.,	33 Edwards Pl.
Garrabrant, Arthur Anderson,	Atlantic City, N. J.,	144 Nassau St.
Gordy, Elijah Vaughan,	Salisbury, Md.,	11 N Ed
Gough, Richard Sidney,	Plainfield, N. J.,	41 Univ. Pl.
Grainger, John Victor, Jr.,	Wilmington, N. C.,	Edwards Pl.
Green, Benoni Sherman, Jr.,	Bloomington, Ill.,	Hill
Griffin, Philip Van Rensselaer,	Evanston, Ill.,	22 Edwards Pl.
Harding, George Jesper, Jr.,	Philadelphia, Pa.,	Hill
Harris, Basil,	New York, N. Y.,	Hill Annex
Hart, Edward Joseph,	Exeter, N. H.,	168 Nassau St.
Hart, Thomas Arthur,	New York, N. Y.,	11 W W
Hecht, Edgar Jerome,	Norfolk, Va.,	37 Nassau St.
Heck, Edson Burr,	Jersey City, N. J.,	15 Dickinson St.
Hendel, Charles William, Jr.,	Reading, Pa.,	44 Vandeventer Av.
Henderson, Charles English, Jr.,	Philadelphia, Pa.,	60 U
Higgins, Campbell,	Bedford, N. Y.,	1 Vandeventer Pl.
Hodges, Fred Grey, Jr.,	Wilmington, Del.,	80 Nassau St.
Holden, Arthur Cort,	New York, N. Y.,	33 Edwards Pl.
Holton, Howard Clifford,	Germantown, Pa.,	Hill Annex
Hornbrook, George Lutz,	Princeton, N. J.,	26 Library Pl.
Hoyt, Philip Diehl,	Fishkill-on-Hudson, N. Y.,	32 Wiggins St.
Hughes, Frank Conrad,	Wilmington, Del.,	10 S W B
Hurlburt, Paul,	Boston, Mass.,	11 U P

- Ill, Edmund Waldimar, Newark, N. J., 37 Wiggins St.  
 Irwin, Richard, Philadelphia, Pa., 15 Univ. Pl.  
 Jones, Richard Cocke, Louisville, Ky., 34 Vandeventer Av.  
 Jones, Spencer Lock, Conshohocken, Pa., 39 Vandeventer Av.  
 Kay, Alfred Goddard, Pittsburg, Pa., 31 Univ. Pl.  
 Kraetzer, Arthur Furman, Brooklyn, N. Y., 18 W W  
 Landon, Frank Cone, Winona, Minn., 6 B  
 Laughlin, Ledlie Irwin, Pittsburg, Pa., 31 Univ. Pl.  
 Lehman, Jerome, Newark, N. J., 22 Edwards Pl.  
 Lippman, Frank Edward, Morristown, N. J., 24 Edwards Pl.  
 Lyman, Kenneth Raynor, Syracuse, N. Y., 34 Vandeventer Av.  
 McCarthy, Lionel Charles, Princeton, N. J., N. Tulane St.  
 McDonald, John Ronald, New York, N. Y., T, Hill  
 McKinney, James Polk, Jr, Pittsburg, Pa., N, Hill  
 McMaster, John Bach, Jr., Philadelphia, Pa., 37 Nassau St.  
 Martin, Archer Nevius, Pittsburg, Pa., L, U  
 Mathey, Dean, Cranford, N. J., 47 Univ. Pl.  
 Merryman, Louis McLane, Cockeysville, Md., 53 Univ. Pl.  
 Metcalf, John Richards, Erie, Pa., 15 Univ. Pl.  
 Miller, Vilroy Cole, Livingston, Mont., 37 Nassau St.  
 Mills, Laurence Potter, Gloversville, N. Y., 19 Univ. Pl.  
 Mullin, John Henry, Wilmington, Del., 37 Nassau St.  
 Murray, John Cornell, Trenton, N. J., 34 Vandeventer Av.  
 Neilson, John Harry, Peoria, Ill., Hill Annex  
 Nevin, Ethelbert Paul, New York, N. Y., 60 Nassau St.  
 O'Donoghue, Florence Joseph, Lowell, Mass., 30 N Ed  
 Paine, Frederick Rodney, Duluth, Minn., Edwards Pl.  
 Pentz, John Jacob, Du Bois, Pa., 34 Vandeventer Av.  
 Perkins, Clarence Basil, Denver, Colo., 15 Dickinson St.  
 Plants, Kenneth Eardley, Spokane, Wash., 45 Univ. Pl.  
 Pruyn, Casper Lansing, Albany, N. Y., 15 Univ. Pl.  
 Rauch, Sylvan Joseph, Newark, N. J., 22 Edwards Pl.  
 Rives, Reginald Bulkeley, New Hamburgh, N. Y., J, Hill  
 Rushmore, Everett, Brewster, N. Y., 1 Vandeventer Pl.  
 Sawyer, Howard Martin, West Medford, Mass., 31 Univ. Pl.  
 Sayer, Richard Sears, New York, N. Y., Hill  
 Schlesinger, Alexander Louis, Newark, N. J., 22 Edwards Pl.  
 Seligman, James Bernheimer, New York, N. Y., 31 Univ. Pl.  
 Sewall, Theodore Grenville, Aurora-on-Cayuga, N. Y., 60 Univ. Pl.  
 Seyster, Thomas Banga, Oregon, Ill., 39 Univ. Pl.  
 Smith, Karl Beckwith, New York, N. Y., I, Hill  
 Speer, George Isaac, Jr., Wilmington, Del., 26 Edwards Pl.

Starkey, Warren Fellows,	Duluth, Minn., 15 Dickinson St.
Stephenson, Kennard,	Columbia, Tenn., 37 Wiggins St.
Stoever, John Lewis,	Germantown, Pa., 19 Univ. Pl.
Swann, Thomas,	Baltimore, Md., 19 Univ. Pl.
Swift, James Alcorn,	Memphis, Tenn., 41 Univ. Pl.
Thompson, Edwin Inslee,	Frostburg, Md., 15 Dickinson St.
Tift, Henry Neville, Jr.,	New York, N. Y., 33 Edwards Pl.
Tobey, Allen,	New York, N. Y., Edwards Pl.
Todd, Charles Stehlin,	New York, N. Y., 53 Univ. Pl.
Tuck, William Hallam,	Alexandria, Egypt, I, Hill
Turtle, William O'Hara,	Pensacola, Fla., 22 Vandeventer Av.
Tyson, Charles McGhee,	Knoxville, Tenn., 19 Univ. Pl.
Uhl, John Hamilton,	Wilkes-Barre, Pa., 15 Dickinson St.
Van Vleet, McKay,	Memphis, Tenn., Hill Annex
Walcott, Russell Smith,	Evanston, Ill., 19 Univ. Pl.
Waterbury, Reginald Kenneth,	New York, N. Y., 39 Univ. Pl.
White, James,	Butler, N. J., 22 Vandeventer Av.
White, Sanford Brownell,	Fall River, Mass., 22 Edwards Pl.
Whittingham, Edward Renwick,	Newton, N. J., 42 Wiggins St.
Wilder, Emory Hurlbut,	Chicago, Ill., 4 Hill Annex
Wilkin, John Hurst,	Baltimore, Md., 47 Univ. Pl.
Williams, Samuel Baker,	Newport, R. I., 39 Vandeventer Av.
Winants, Garrett Ellis,	Bayonne, N. J., 19 Univ. Pl.
Wolf, Alan Lloyd,	New York, N. Y., 60 Univ. Pl.

## CANDIDATES FOR THE C.E. DEGREE

Andrews, Walter Gresham,	Buffalo, N. Y., Hill
Barnhart, Eugene Morse,	Chicago, Ill., 48 Univ. Pl.
Battles, William Wait,	Philadelphia, Pa., 31 Nassau St.
Block, Louis, Jr.,	New York, N. Y., 53 Univ. Pl.
Bowman, Charles Luckey,	Montclair, N. J., 32 Vandeventer Av.
Breingan, Alexander Walton,	Newark, N. J., 33 Edwards Pl.
Brush, Charles Benjamin,	New York, N. Y., 47 Univ. Pl.
Carroll, John Haydock, Jr.,	St. Louis, Mo., P, Hill
Cart, Francis Guerin, Jr.,	Mount Vernon, N. Y., 12 Park St.
Cook, Harry,	Pottstown, Pa., O, Hill
Coyle, Harold Haviland,	Denver, Colo., Hill Annex
DeVito, Dominick Cornelius,	Port Reading, N. J., 8 W W
Don, Stuart Morrison,	Troy, N. Y., 4 Hill Annex
Dunn, George Harold,	New York, N. Y., 34 Vandeventer Av.
Dunne, Desmond, Jr.,	Brooklyn, N. Y., Hill Annex

Earle, Harold Baldwin,	Newark, N. J.,	31 Univ. Pl.
Edwards, Percy Noyes,	Ilion, N. Y.,	26 N Ed
Entwisle, Franklin Newlin,	Chester, Pa.,	8 N R
Erben, Philip Van Rensselaer,	Radnor, Pa.,	31 Nassau St.
Felt, Henry Leroy,	New York, N. Y.,	41 Univ. Pl.
Ford, Franklin,	Princeton, N. J.,	67 Prospect Av.
Fowler, Benjamin Maltby, Jr.,	Poughkeepsie, N. Y.,	
		32 Vandeventer Av.
Gatter, Lachlan Stewart,	Newburgh, N. Y.,	28 Vandeventer Av.
Gunning, Hyland,	New York, N. Y.,	168 Nassau St.
Harper, Frank Williamson,	Trenton, N. J.,	Hill
Higgins, Ralph Berringer,	Jersey City, N. J.,	13 U P
Humbird, John Alexander,	Spokane, Wash.,	172 Nassau St.
Hutton, John Laurence,	New York, N. Y.,	28 Vandeventer Av.
Janss, Harold,	Los Angeles, Cal.,	A, Hill
McClave, Bernard Duncan,	New York, N. Y.,	R, U
McClure, Lowrie Ellis,	Kansas City, Mo.,	28 Vandeventer Av.
McCreary, William Howell,	Philadelphia, Pa.,	19 Univ. Pl.
McLean, Warden,	Philadelphia, Pa.,	47 Univ. Pl.
McLure, Charles Lorenz,	Ardmore, Pa.,	20 S Ed
McWilliams, John Profasco,	Cleveland, Ohio,	53 Univ. Pl.
Mahan, Joseph Hayward, Jr.,	Brooklyn, N. Y.,	Hill Annex
Martin, John Cochran,	Plainfield, N. J.,	41 Univ. Pl.
Matthews, Warren Shepard,	New York, N. Y.,	32 Wiggins St.
Medina, Richard Augustine,	New York, N. Y.,	41 Univ. Pl.
Ormond, Harold Huston,	Princeton, N. J.,	276 Nassau St.
Orrick, Henry Albert, Jr.,	Baltimore, Md.,	19 Univ. Pl.
Osborne, Horace Bond,	Newark, N. J.,	3 E W
Page, Louis Rodman, Jr.,	Philadelphia, Pa.,	33 Edwards Pl.
Pennypacker, John Griffen,	Phoenixville, Pa.,	7 Park Pl.
Peterson, Reuben Marion Tower,	New York, N. Y.,	
		34 Vandeventer Av.
Place, Charles Irving,	Passaic, N. J.,	17 S Ed
Plager, Clemis,	Hackensack, N. J.,	16 S Ed
Platt, Horace,	Brooklyn, N. Y.,	19 Univ. Pl.
Powell, William Humphreys, Jr.,	Sedalia, Mo.,	I U
Ralston, Louis Tartler Meredith,	Philadelphia, Pa.,	33 Edwards Pl.
Reed, Chauncey Wattles,	Glen Ridge, N. J.,	34 Vandeventer Av.
Reid, Fred Daut,	Faribault, Minn.,	45 Univ. Pl.
Reilly, Charles Gilbert,	Pittsburg, Pa.,	6 B
Ridout, Seth,	Boyertown, Pa.,	42 Wiggins St.
Rockwell, Charles Bristed, Jr.,	Bristol, R. I.,	45 Univ. Pl.



Roe, George Robinson,	Patchogue, N. Y.,	Hill Annex
Roebeling, Siegfried,	Trenton, N. J.,	Edwards Pl.
Scutt, Harold Benjamin,	Hollis, N. Y.,	32 Vandeventer Av.
Shaner, Isaac Heller,	Boyertown, Pa.,	45 Vandeventer Av.
Shaw, James Guthrie, Jr.,	New York, N. Y.,	O, Hill
Shoemaker, Jackson Richardson,	Elmira, N. Y.,	15 Univ. Pl.
Smith, Robert Meade, Jr.,	Orange, N. J.,	15 Univ. Pl.
Sterrett, Charles Hurlbut,	Milroy, Pa.,	37 N Ed
Stone, Charles Ferrell,	Philadelphia, Pa.,	11 Chambers St.
Thebaud, Paul Louis,	Brookside, N. J.,	Edwards Pl.
Tyson, Carroll Boorse,	Lansdale, Pa.,	25 Edwards Pl.
Welch, John Lea,	New York, N. Y.,	15 Univ. Pl.
Wigton, Robert Wilson,	Philadelphia, Pa.,	Edwards Pl.
Williams, George Robinson,	Philadelphia, Pa.,	6 S E B

## STUDENTS QUALIFYING FOR REGULAR STANDING

Alexander, Charles Andrew,	Cleveland, Ohio,	23 S Ed
Arnold, Thurman Wesley,	Laramie, Wyo.,	P, U
Atkinson, Thomas, Jr.,	Gordonsville, Va.,	82 Nassau St.
Auerbach, Oscar Meredith,	St. Paul, Minn.,	41 B
Beckett-Coster, Norman,	New York, N. Y.,	11 Nassau Inn
Bishop, Harry William,	Chicago, Ill.,	50 P
Bryan, Hugh McLellan,	Albuquerque, N. M.,	7 N Ed
Burt, Watson B.,	South Pasadena, Cal.	215 H S
Byron, Edward Joseph,	Williamsport, Md.,	168 Nassau St.
Chapin, Frederick Joseph,	Washington, D. C.,	36 Wiggins St.
Cleland, Robert Glass,	Long Beach, Cal.,	215 H S
Cook, Norman William,	Indianapolis, Ind.,	85 P
Dexter, Earl Charles,	Morrisville, N. Y.,	13 Park St.
Diamond, Douglas Byrne,	Gaithersburg, Md.,	36 Wiggins St.
Driver, Clarence Wike,	Philadelphia, Pa.,	5 S M R
Drummond, John Hamilton,	New York City,	19 W W
Field, James Thomas,	Ashland, Ky.,	24 P
Green, Edward Franklin,	Buffalo, N. Y.,	22 N Ed
Haywood, George Price, Jr.,	Lafayette, Ind.,	12 S M R
Hipple, Walter John,	Marysville, Pa.,	21 Bank St.
Jackson, Ralph LeRoy,	Upper Alton, Ill.,	1 S D
Jameson, John Tarkington,	Indianapolis, Ind.,	16 Bank St.
Kennedy, John Clarke,	Brooklyn, N. Y.,	65 B
Lawrence, George William,	Pennington, N. J.,	54 B S
Love, William Iverson,	Nashville, Tenn.,	2 W W
Martin, John Funk, Jr.,	Jacksonville, Fla.,	11 S M R
Mills, Homer Ossian,	Boston, Mass.,	20 Vandeventer Av.
Morrison, Donald Ambrose,	Indianapolis, Ind.,	85 P
Morse, Edward Clarke,	West Washington, D. C.,	36 Wiggins St.
Nourse, Emory Miller,	Des Moines, Iowa,	10 S M R
Parrott, Robert Burton,	Indianapolis, Ind.,	47 Univ. Pl.
Rahill, John Welsh,	Lawrenceville, N. J.,	1 Vandeventer Pl.
Ralph, Henry William,	Jamaica, N. Y.,	4 S R
Rankin, Marquis Kemper,	South Charleston, Ohio,	47 U
Ransome, Percy Allen,	Tompkinsville, N. Y.,	6 S E B
Richardson, Norman Dayton,	New York, N. Y.,	7 S M R
Riggs, Gaylord,	Elmira, N. Y.,	15 Univ. Pl.
Roberts, Thomas C,	Minneapolis, Minn.,	45 Vandeventer Av.
Rowland, James Edward,	Long Branch, N. J.,	Hill

STUDENTS QUALIFYING FOR REGULAR STANDING 417

Schoonmaker, James Martinus, Jr.,	Pittsburg, Pa.,	90 Nassau St.
Sill, Theodore Winthrop,	East Orange, N. J.,	5 W W
Smith, Lawrence Breese,	Plainfield, N. J.,	7 U P
Stauffer, Milton Theobold,	Lyons, N. Y.,	A, E B
Stewart, George Hammil, Jr.,	Shippensburg, Pa.,	11 Alexander St.
Stewart, William,	Kirkwood, Pa.,	12 A S
Straus, Nathan, Jr.,	New York, N. Y.,	4 Nassau Inn
Stump, Henry Arthur, Jr.,	Baltimore, Md.,	185 L
Taylor, William Barrett, Jr.,	Winston-Salem, N. C.,	408 H S
Thomas, Evan Welling,	Lewisburg, Pa.,	44 Vandeventer Av.
Thompson, John Sharpley, Jr.,	Baltimore, Md.,	98 B
Tilton, George Albert,	Exeter, N. H.,	12 N Ed
Urban, Abram Linwood, Jr.,	Lansdale, Pa.,	10 S Ed
Van Dyke, Arthur Gordon,	Princeton, N. J.,	5 S D
Vernon, Eugene Melvin,	Hockessin, Del.,	13 M D
Wachner, Edwin Miles,	Akron, Ohio,	25 S Ed
Wardwell, Edward Howland,	New York, N. Y.,	4 E B
Wendell, Hugo Christian Martin,	Trenton, N. J.,	Trenton, N. J.
Whiteley, George Henry, Jr.,	York, Pa.,	111 L
Woodle, Berton Tisdale,	Narberth, Pa.,	38 N Ed
Woodrow, James,	Columbia, S. C.,	17 M D
Yard, George William,	Kingston, N. J.,	Kingston, N. J.

STUDENTS QUALIFYING FOR REGULAR STANDING.....61

## SPECIAL STUDENTS

## NOT CANDIDATES FOR A DEGREE

Bell, Eugene Byron,	Kansas City, Mo.,	112 L
Darling, Chester Coburn,	Providence, R. I.,	11 '79 H
Healey, John Patrick,	Belt, Mont.,	32 N Ed
Taylor, George, Jr.,	New York, N. Y.,	1 U P

SPECIALS.....4

## GENERAL SUMMARY

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### OFFICERS OF INSTRUCTION AND ADMINISTRATION

Trustees, . . . . .	30
Faculty and Instructors, . . . . .	161
University Officers and Curators, . . . . .	28

### STUDENTS

#### GRADUATE SCHOOL

Fellows, . . . . .	24
Graduate Scholars, . . . . .	1
Graduate Students, . . . . .	66
	—— 91

#### ACADEMIC DEPARTMENT

Senior Class, . . . . .	213
Junior Class, . . . . .	161
Sophomore Class, . . . . .	103
Freshman Class, . . . . .	148
	—— 625

#### JOHN C. GREEN SCHOOL OF SCIENCE

Electrical School, . . . . .	10
Senior Class, . . . . .	62
Junior Class, . . . . .	74
Sophomore Class, . . . . .	173
Freshman Class, . . . . .	214
	—— 533

STUDENTS QUALIFYING FOR REGULAR STANDING, . . . . . 61

SPECIAL STUDENTS, . . . . . 4

Total for the year 1908-1909, . . . . . 1314

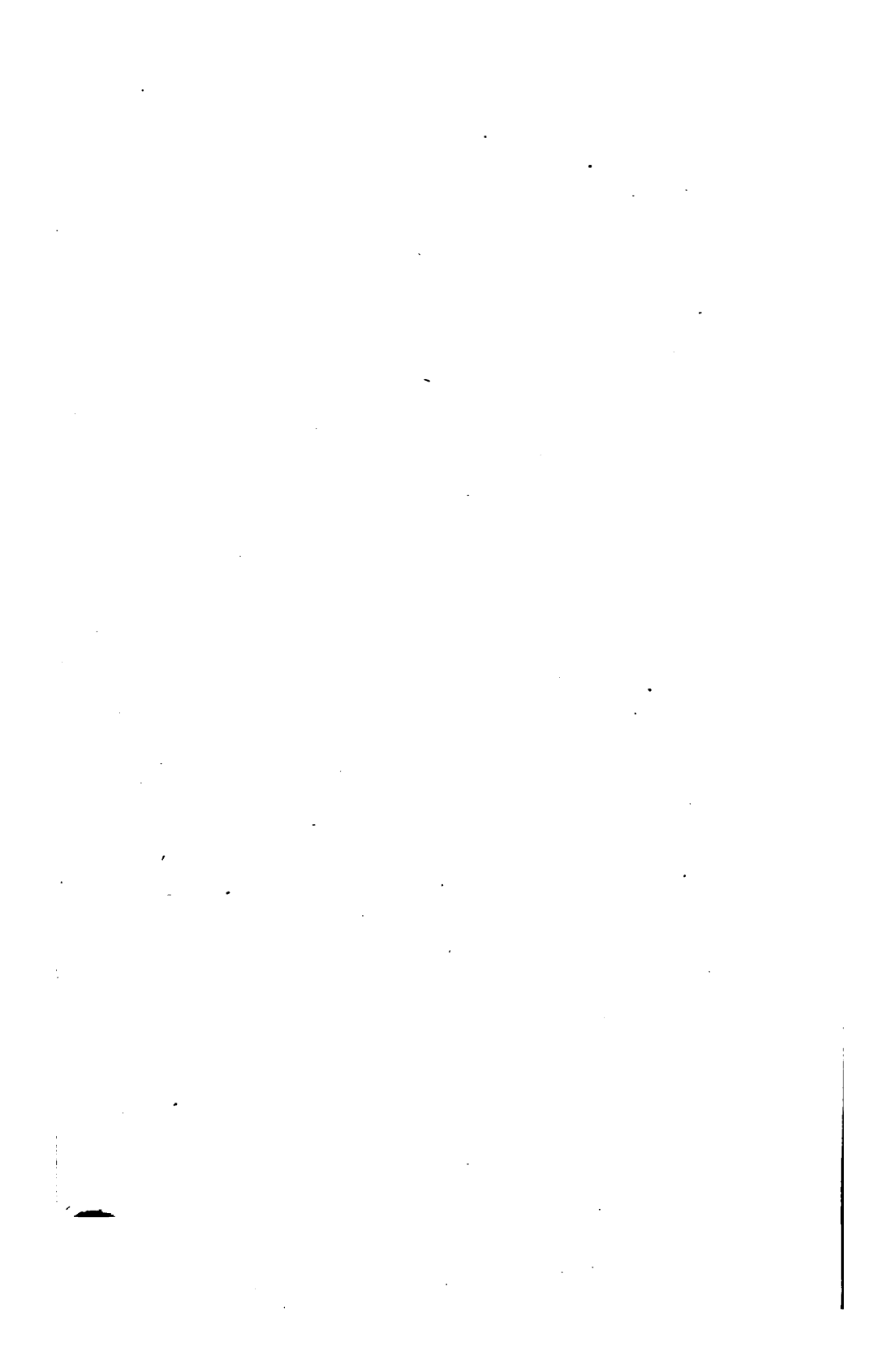
## SUMMARY OF STUDENTS BY STATES

New York, . . . . .	325	Nebraska, . . . . .	5
Pennsylvania, . . . . .	285	Washington, . . . . .	5
New Jersey, . . . . .	264	Mississippi, . . . . .	4
Maryland, . . . . .	49	Utah, . . . . .	4
Ohio, . . . . .	41	West Virginia, . . . . .	4
Illinois, . . . . .	40	Arkansas, . . . . .	3
Massachusetts, . . . . .	25	New Hampshire, . . . . .	3
District of Columbia, . . . . .	22	Oregon, . . . . .	3
Delaware, . . . . .	20	Louisiana, . . . . .	2
Indiana, . . . . .	18	North Dakota, . . . . .	2
Missouri, . . . . .	17	Vermont, . . . . .	2
Tennessee, . . . . .	16	Georgia, . . . . .	1
Kentucky, . . . . .	14	Idaho, . . . . .	1
Minnesota, . . . . .	13	Kansas, . . . . .	1
Connecticut, . . . . .	12	Maine, . . . . .	1
Colorado, . . . . .	11	New Mexico, . . . . .	1
Michigan, . . . . .	10	South Dakota, . . . . .	1
Virginia, . . . . .	10	Wyoming, . . . . .	1
Iowa, . . . . .	8	Canada, . . . . .	4
Rhode Island, . . . . .	8	British Isles, . . . . .	2
Texas, . . . . .	7	Bermuda, . . . . .	1
North Carolina, . . . . .	7	Brazil, . . . . .	1
South Carolina, . . . . .	7	Cuba, . . . . .	1
Alabama, . . . . .	6	Egypt, . . . . .	1
Montana, . . . . .	6	Japan, . . . . .	1
Wisconsin, . . . . .	6	Korea, . . . . .	1
California, . . . . .	5	Turkey, . . . . .	1
Florida, . . . . .	5		
		Total, . . . . .	1314

## ABBREVIATIONS

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A S, Alexander Hall, Seminary.	P, Patton Hall.
B, Blair Hall.	S D, South Entry, Albert B. Dod Hall.
B S, Brown Hall, Seminary.	S E B, South East Entry, David Brown Hall.
E B, East Entry, David Brown Hall.	S Ed, South Entry, Edwards Hall.
E M W, East Middle Entry, Witherspoon Hall.	S M R, South Middle Entry, Reunion Hall.
E W, East Entry, Witherspoon Hall.	S R, South Entry, Reunion Hall.
H S, Hodge Hall, Seminary.	S W, South Entry, West College.
L, Stafford Little Hall.	S W B, South West Entry, David Brown Hall.
L P, Lower Pyne Building.	U, University Hall.
M D, Middle Entry, Albert B. Dod Hall.	U P, Upper Pyne Building.
N, Nassau Hall.	W B, West Entry, David Brown Hall.
N D, North Entry, Albert B. Dod Hall.	W M W, West Middle Entry, Witherspoon Hall.
N Ed, North Entry, Edwards Hall.	W W, West Entry, Witherspoon Hall.
N M R, North Middle Entry, Reunion Hall.	'79 H, Seventy-nine Hall.
N R, North Entry, Reunion Hall.	
N W, North Entry, West College.	





# DIRECTORY

## OF OFFICERS AND STUDENTS IN ALL DEPARTMENTS OF THE UNIVERSITY

The name of every officer is printed in SMALL CAPITALS.

The names of students are followed by the designation of their several classes (f, Fellow ; g, Graduate Student ; Sr., Senior ; Jr., Junior ; So., Sophomore ; Fr., Freshman ; q, Student qualifying for Regular Standing ; Sp., Special Student) ; the name of each student is followed also by an abbreviation indicating the department to which he belongs, viz., a, Academic Department ; s, The John C. Green School of Science ; e, The School of Electrical Engineering.

The abbreviations of the residences of officers and students are found on a preceding page.

ABBOTT, F. F., <i>Professor</i> , 65 Library Pl.	Annin, R. E., Jr., <i>Sr. a</i> 8 S W
Abbotts, W., Jr., <i>So. a</i> 3 S W	Annin, R. O., <i>Fr. a</i> N, U
Ackerson, F. L., <i>Sr. s</i> 39 S Ed	Applegate, R. A., <i>Jr. a</i> 51 P
Adams, C. E., <i>Sr. a</i> 6 N D	Armentrout, J. S., <i>g</i> 17 A S
Adams, C. H., <i>Fr. s</i> 47 Univ. Pl.	Armour, N., <i>Sr. a</i> 184 L
ADAMS, E. P., <i>Ass't Professor</i> , 12 Nassau St.	Armstrong, G. A., <i>Sr. a</i> 9 L P
Adams, H. C., <i>Fr. s</i> 10 Madison St.	ARNER, G. B. L., <i>Instructor</i> , 24 Chambers St.
Adams, W. T., Jr., <i>Sr. a</i> 63 B	Arnett, J. H., <i>Fr. a</i> 15 Univ. Pl.
ADRIANCE, W. M., <i>Preceptor</i> , 138 Fitz Randolph Rd.	Arnett, W. W., Jr., <i>Sr. s</i> 101 P
Alexander, C. A., <i>q</i> 23 S Ed	Arnold, N. N., <i>So. a</i> 6 N M R
ALEXANDER, J. W., <i>Trustee</i> , New York, N. Y.	Arnold, R. F., <i>Fr. a</i> 22 S Ed
Alexander, J. W., II, <i>Jr. s</i> 54 '79 H	Arnold, T. W., <i>q</i> P, U
Alexander, K. D., <i>Jr. a</i> 8 W B	Aston, A., <i>g</i> 23 B S
Allison, J. M., <i>Jr. a</i> 3 L P	Atkinson, E. S., <i>Jr. s</i> 84 B
ANDERSON, A. R., <i>Preceptor</i> , 35 Bank St.	Atkinson, T., Jr., <i>q</i> 82 Nassau St.
Anderson, C. G., <i>g</i> 6 Bank St.	Auerbach, O. M., <i>q</i> 41 B
Andrews, W. G., <i>Fr. s</i> Hill	AXSON, S., <i>Professor</i> , 10 Nassau St.
Angell, M. B., <i>So. s</i> 9 E B	Aymar, J. W., Jr., <i>Jr. s</i> 172 Nassau St.
Ankeney, F. N., <i>Sr. a</i> 12 E B	Bachrach, A. N., <i>So. s</i> 7 B
	Bailie, R. L., <i>Fr. s</i> 47 Univ. Pl.
	Bair, P. S., <i>Jr. a</i> 63 P
	Baiter, R. W., <i>So. s</i> 36 L

- Baker, D., Jr., *Fr. a*  
     15 Dickinson St.  
 Baker, W. E., Jr., *Sr. s* 2 E M W  
 Baker, W. M., *Fr. s*  
     11 Alexander St.  
 Baldwin, C. T., *Jr. s* 10 N D  
 Baldwin, E. N., *Jr. a* 103 B  
 Baldwin, R. L., *Fr. s*,  
     39 Vandeventer Av.  
 Baldwin, W. H., *Fr. a* 10 S W B  
 Ballard, F. E., Jr., *Fr. s*  
     33 Edwards Pl.  
 Ballin, C. G., *Jr. s* 141 L  
 Ballin, D. D., *Sr. a* 3 S W B  
 Bamberger, J. M., *Jr. a* 61 B  
 Bament, L. M., *So. a* 20 M D  
 Bammann, F. C., *Jr. s*  
     27 Chambers St.  
 Bangs, F. F., *So. s* 1 U P  
 Barchfeld, E. A., *Sr. a* 16 M D  
 Bard, R. E., *So. s* 79 U  
 Bardsley, W. W., *So. a* 15 W W  
 Barkhorn, L. J., *Fr. s*  
     37 Wiggins St.  
 Barler, H. A., *Sr. a* 20 N Ed  
 Barnes, A. A., *Fr. s*  
     33 Vandeventer Av.  
 Barnhart, E. M., *Fr. s*  
     48 Univ. Pl.  
 Barr, L. A., *Jr. s* 121 L  
 Barr, R. S., *So. s* 21 M D  
 BARRET, L. C., *Preceptor*,  
     37 Nassau St.  
 Barry, H. A., *Fr. a* 47 Univ. Pl.  
 Bartlett, R. D., *Fr. s*  
     15 Dickinson St.  
 Baskerville, C. E., *g* 205 H S  
 BASORE, J. W., *Preceptor*,  
     26 Bank St.  
 Bassett, N., *So. s* 53 L  
 Battles, W. W., *Fr. s*  
     31 Nassau St.  
 Baumgartner, H. L., *Jr. s*  
     9 S M R  
 Baxter, E. B., *g* 95 Mercer St.  
 Beach, E. E., *Fr. a*  
     24 Edwards Pl.  
 Beal, F. W., *g* 14 Park St.  
 Beam, J. C., *Sr. s* 86 Nassau St.  
 BEAM, J. N., *Preceptor*,  
     52 Bayard Lane  
 Beckett-Coster, N., *g*  
     11 Nassau Inn  
 Belding, F. N., *Jr. a* 11 P  
 Belknap, C., *Fr. s*  
     39 Vandeventer Av.  
 Belknap, M., *Fr. s* 19 Univ. Pl.  
 Belknap, W. C., *Jr. s* 52 B  
 Bell, C. J., *Fr. s*  
     44 Vandeventer Av.  
 Bell, E. B., *Sp.* 112 L  
 Bell, H. S., *So. s* 12 S W B  
 Bell, J. C., Jr., *Fr. a* 47 Univ. Pl.  
 Benedict, H. W., *Sr. a* 11 N M R  
 Bennett, I. F., *So. s* 76 U  
 Benson, B. D., *Fr. a* 47 Univ. Pl.  
 Benton, D. C., *Jr. a* 61 L  
 Benton, W. G., *Fr. a* 41 Univ. Pl.  
 Bergen, E. H., Jr., *Jr. s*  
     50 Nassau St.  
 Bergen, F. L., *Fr. s*  
     32 Vandeventer Av.  
 Bergin, F. S., *Jr. a* 30 S Ed  
 Bergland, W. S., *e* 44 '79 H  
 Berl, E. E., *Fr. a* 36 Wiggins St.  
 Berry, A. D., *Fr. a* 35 L  
 Berry, A. H., *Sr. s* 7 W B  
 Bertolet, J. A., *Fr. a*  
     80 Nassau St.  
 Bickford, J. D., *So. a* 14 S D  
 Bickford, P. R., *So. s*  
     30 Vandeventer Av.  
 Biddle, C. J., *So. a* 1 L P  
 Biggs, B. T., *Fr. a* 168 Nassau St.  
 Bilhuber, E. A., *Fr. s* 25 N Ed  
 Bingley, G. A., *Jr. a* 3 W B  
 Birkenhauer, F. W., *Jr. a* 9 W B  
 Birkhoff, G., III, *So. s* 49 U  
 Bishop, H. W., *q* 50 P  
 Bissell, A. H., *Fr. s*  
     22 Edwards Pl.  
 Black, H. C., *Sr. a* 23 P  
 Black, R. F., *Fr. a* 4 S D  
 BLAIR, D. C., *Trustee*,  
     Belvidere, N. J.  
 Blair, L. D., *Fr. a* 31 Univ. Pl.  
 BLAU, M. F., *Ass't Professor*,  
     27 Bank St.  
 Blocher, H. H., *g* 305 H S  
 Block, L., Jr., *Fr. s* 53 Univ. Pl.  
 Blodgett, W. N., *Sr. s* 7 N R  
 Bluck, P. E., *Fr. a* 28 Bank St.  
 Blun, F. M., *Sr. a* 42 L  
 Boas, H. A., *Sr. a* 122 L  
 Bockhoven, F. H., *e* 6 Bank St.

- BOGART, E. L., *Preceptor*,  
15 Prospect Av.
- Boice, A. D., *Sr. a* 64 L
- Boker, H. D., *Fr. s* K, Hill
- Bonner, D., Jr., *Sr. s* 2 W M W
- Booker, L. H., *Sr. a* 71 P
- Booth, A. E., *Sr. s* 143 L
- Booth, A. W., *So. s* 3 M D
- Bosworth, R. G., *Fr. a* 15 Univ. Pl.
- Bothwell, E. G., *Sr. s* 34 B
- Bowman, C. L., *Fr. s* 32 Vandeventer Av.
- Bowman, F. Q., *Fr. a* 30 U
- Boyd, A., *So. s* 11 E B
- Boyd, J., Jr., *Jr. a* 31 '79 H
- Boyd, J. F., Jr., *Sr. s* 34 '79 H
- Boyer, C. V., *g* 11 Park St.
- BRACKETT, C. F., *Professor*,  
4 Prospect Av.
- Bradford, F. R., *Jr. s* 53 P
- Brady, F. A., *So. s* 11 N D
- Brady, S. S., *Sr. a* 63 '79 H
- Braskamp, O., *g* 413 H S
- Bready, G. S., *g* 37 A S
- Bredemus, J., *So. s* 16 N Ed
- Breed, W. N., *Fr. s* 34 Vandeventer Av.
- Breese, J. L., Jr., *Sr. s* 82 Nassau St.
- Breingan, A. W., *Fr. s* 33 Edwards Pl.
- Brent, R. I., *Fr. a* 22 Vandeventer Av.
- Brewer, F. D., *Jr. s* 132 L
- Brigham, C. C., *Fr. s* 45 Univ. Pl.
- Brooks, S. B., *Jr. a* 12 '79 H
- Brown, F. C., *g* 30 Park Pl.
- BROWN, G. D., *Instructor*,  
17 Alexander St.
- Brown, H., *Fr. s* L, Hill
- Brown, T. K., *Fr. s* 39 Univ. Pl.
- Browne, F. Z., *g* 19 A S
- Brownlee, O. Y., *g* 6 Bank St.
- Bruen, W. W., *So. s* 1 E B
- Brush, C. B., *Fr. s* 47 Univ. Pl.
- Brush, J. C., *Sr. s* 3 S W B
- Bryan, B. M., *Fr. s* 45 Vandeventer Av.
- Bryan, H. McL., *q* 7 N Ed
- Buchanan, H. H., *So. a* 14 S W
- Buchanan, J. G., *Sr. a* 91 P
- Buchanan, W. D., *g* 113 H S
- Buckingham, H. G., Jr. *s* 182 L
- Budd, D. S., *Sr. s* 43 P
- BUFFUM, D. L., *Preceptor*,  
107 Alexander St.
- Burnsted, R. R., *So. s* 5 E M W
- Bunn, G. W., Jr., *Fr. s* Q, Hill
- BUNN, H. C., *Curator*,  
Univ. Offices
- Bunting, A. R., *Sr. a* 83 P
- Bunzl, J. V., *Fr. a* 7 Park Pl.
- Burk, C. A. D., *Sr. s* 3 B
- Burk, E. H., *Sr. s* 42 B
- Burk, F. G., *Fr. a* Edwards Pl.
- Burke, R. J., *Fr. s* 11 Alexander St.
- Burnett, C. E., *Fr. s* 45 Univ. Pl.
- Burnett, C. H., *Sr. a* 32 B
- BURNHAM, C. E., *Choirmaster*,  
24 Mercer St.
- Burr, H. C., *So. a* 11 W B
- BURT, M. S., *Instructor*, Merwick
- Burt, W. B., *q* 215 H S
- Bush, J. G., *Fr. a* 31 Nassau St.
- Butler, C. T., *Fr. a* 47 Univ. Pl.
- BUTLER, H. C., *Professor*,  
Merwick
- Butler, J. C., *Fr. s* 31 Univ. Pl.
- Butler, L. C., *Jr. a* 161 L
- Butler, W. A., III, *Sr. a* 9 L P
- Butts, A., Jr., *So. a* 20 E W
- Buzby, A. D., *So. s* 50 U
- Byron, E. J., *q* 168 Nassau St.
- CADWALADER, J. L., *Trustee*,  
New York, N. Y.
- Cadwell, P. N., *Jr. a* 7 E M W
- Caffery, E. W., *Fr. s* 27 Univ. Pl.
- Cahill, W. L., *Jr. a* 172 L
- Caldwell, H. S., *Sr. a* 83 P
- Callery, W., *Fr. a* Hill
- CAMERON, D., *Preceptor*,  
42 Mercer St.
- Cameron, W. R., *Sr. a* 34 '79 H
- Camp, P. Van S., *Fr. a* 47 Univ. Pl.
- Camp, S. F., *Jr. a* 11 S E B
- Campbell, A. B., *Fr. a* 15 Univ. Pl.
- Campbell, M. A., *Sr. s* 75 B S
- Cannon, H. W., Jr., *Jr. a* 80 P
- CAPPS, E., *Professor*,  
150 Fitz Randolph Rd.
- Carey, J. J., *So. a* 12 S E B

- Carlburg, H. G., *So. s* 10 N W  
 CARNOCHAN, J. M., *University Physician*, 148 Nassau St.  
 Carpenter, D. R., *g* 11 Univ. Pl.  
 Carpenter, F. R., *Sr. a* 2 S E B  
 Carpenter, J. H., Jr., *So. s* 16 B  
 Carr, B. J., *Sr. a* 43 '79 H  
 Carroll, A. C., *Fr. s* 14 M D  
 Carroll, J. H., Jr., *Fr. s* P, Hill  
 Carroll, N. E., *Sr. a* 72 B  
 Carruthers, J. F. B., *Fr. a* 19 S W  
 Carson, J. R., *e* 15 S M R  
 Cart, F. G., Jr., *Fr. s* 12 Park St.  
 Carter, J. L., Jr., *a* 44 L  
 Carter, R. D., Jr., *Fr. a* 15 Univ. Pl.  
 Carter, R. L., *So. a* 13 B  
 Carver, W. H., *Sr. a* 34 Vandeventer Av.  
 Cary, L. R., *g* 13 Vandeventer Av.  
 Cass, N. R., *Sr. a* 5 E B  
 Castle, E. S., *So. s* 102 P  
 Causse, A. L., Jr., *Jr. s* 101 B  
 Chambers, B. B., *Sr. a* 14 S M R  
 Chambers, J. W., *Sr. a* 5 S R  
 Chapin, F. J., *g* 36 Wiggins St.  
 Chapin, R. V., *g* 69 B S  
 Chaplin, H., *Sr. a* 171 L  
 Chapman, J. L., *Sr. s* 98 B  
 Chapman, P. A., *Sr. a* 6 S W B  
 Chase, J. W., *g* 403 H S  
 Childs, W. A., Jr., *So. s* 134 L  
 Chisholm, C. S., *Sr. a* 98 Mercer St.  
 Chisolm, J. J., *So. a* 17 E W  
 Chrystie, P. P., *Fr. s* 39 Univ. Pl.  
 Cist, C. F., *Sr. a* 30 P  
 Clancy, E. M., *So. s* 90 Nassau St.  
 Clark, A. B., *So. a* 80 Nassau St.  
 Clark, C. E., Jr., *So. s* 10 E B  
 Clark, J. H., Jr., *Sr. a* 6 S W  
 Clark, T. F., *So. s* 12 P  
 Cleland, J. S., *g* 199 Nassau St.  
 Cleland, R. G., *g* 215 H S  
 CLEMONS, W. H., *Reference Librarian*, 4 E W  
 Cleveland, C. L., *Fr. a* 28 Vandeventer Av.  
 CLOSE, G. F., *Secretary to the President*, 70 Univ. Pl.  
 Close, H. W., Jr., *a* 8 E M W  
 COAN, W. J., *Proctor*, 2 N M R  
 Cochran, T. D., *So. a* 34 P  
 Cobb, H. W., Jr., *Fr. a* 31 Nassau St.  
 Coe, S., *Fr. s* 45 Univ. Pl.  
 Colborn, A. J., *Sr. a* 6 E B  
 COLLINS, V. L., *Preceptor*, 214 The Western Way  
 Collord, J. H., *So. a* 7 S W B  
 Columbia, C. F., *So. s* 35 P  
 Colver, F. B., Jr., *a* 6 W M W  
 CONEY, J. H., *Professor*, Bayles Farm  
 Conger, A. M., *Sr. a* 4 N D  
 Conger, R. S., Jr., *a* 5 N D  
 CONKLIN, E. G., *Professor*, 139 Broadmead  
 Connelly, M. S., *So. a* 7 S R  
 Conner, G. R., *So. a* 75 U  
 Conner, W. E., *So. s* 48 Mercer St.  
 Connett, E. V., III, *Fr. s* J, Hill  
 Connett, F. S., *Sr. a* 14 P  
 Cook, H., *Fr. s* O, Hill  
 Cook, J. A., *Sr. a* 1 S W B  
 Cook, N. W., *q* 85 P  
 COOKE, H. L., *Ass't Professor*, 7 Mercer St.  
 Cooke, J. S., *So. s* 73 B  
 Cooke, R., *So. s* 23 '79 H  
 Cookingham, P. W., *So. s* 9 E B  
 Cooney, P. P., *Fr. a* 3 S Ed  
 Cooper, E. C., *g* 11 Univ. Pl.  
 Cooper, J. C., Jr., *Sr. a* 31 Nassau St.  
 Cooper, M. A., *Fr. a* 33 Edwards Pl.  
 Cooper, W. S., *Fr. s* 37 Wiggins St.  
 Corbin, H. K., *Sr. a* 43 L  
 Cornish, A. C., *So. s* 20 N W  
 CORNWALL, H. B., *Professor*, 12 Morven St.  
 CORNWELL, G. G., *Instructor*, 14 N Ed  
 CORWIN, E. S., *Preceptor*, 30 Mercer St.  
 CORY, W. E., *Instructor*, 8 S Ed  
 COSGRAVE, J. S., *Ass't to the Treasurer*, Univ. Offices  
 COTTRELL, W. R., *Organist*, 1 Nassau St.  
 Couse, H., *Sr. a* 17 S W

- COVINGTON, H. F., *Ass't Professor*, 34 Edgehill St.  
 Coxe, C. S., *Sr. a* 52 '79 H  
 Coxe, F. T., *So. s* 38 L  
 Coyle, H. H., *Fr. s* Hill Annex  
 Craig, A. H., *So. s* 114 B  
 CRAIG, H., *Preceptor*, 52 Univ. Pl.  
 Craig, R. M., *Fr. s* Edwards Pl.  
 CRAMPTON, G. C., *Assistant*, 62 Wiggins St.  
 Craven, F. R., *So. s* 53 L  
 Craven, T. S., *Sr. a* 5 S M R  
 Crawford, E., *So. a* 18 M D  
 Creighton, G. W., *So. s* 4 E M W  
 Crenshaw, J. L., *g* 115 H S  
 Critchlow, F. B., *Jr. a* 5 N W  
 CRITCHLOW, F. L., *Preceptor*, 8 N W  
 Critchlow, G. A., *So. a* 3 W M W  
 Critchlow, M. M., *Fr. a* 37 Wiggins St.  
 CROLL, M. W., *Preceptor*, 6 N R  
 Crosby, W. F., *Sr. s* 6 Nassau Inn  
 Cross, F. R., *Fr. a* 31 Nassau St.  
 Crossman, P. F., *So. s* 163 L  
 Crowell, J. E., *Jr. s* 7 W M W  
 Culbertson, T. W., *So. s* 68 L  
 Cummings, L. C., *g* Merwick  
 Cunningham, F. L., *Sr. a* 112 B  
 Cunningham, F. W., *g* Merwick  
 Cunningham, G. T., *Jr. a* 141 L  
 Cunningham, L., *So. s* 9 S W B  
 CUYLER, C. C., *Trustee*, New York, N. Y.  
 Cuyler, T. L., III, *Fr. a* 16 Bank St.  
 DAHLGREN, U., *Ass't Professor*, 7 Evelyn Pl.  
 Dale, J. K., *So. a* 26 M D  
 Daly, P. G., *Fr. a* 53 Univ. Pl.  
 Daniel, Z., *g* 7 S Ed  
 DANIELS, W. M., *Professor*, 210 Mercer St.  
 Darling, C. C., *Sp.* 11 '79 H  
 Daub, J. J., *So. a* 13 B  
 Davies, A., *Jr. a* 41 P  
 Davies, J. J., *g* 6 Bank St.  
 Davies, U. M., *Fr. s* 11 Alexander St.  
 Davis, A. J., *g* 65 B S  
 Davis, H. C., Jr., *Fr. s* 11 Alexander St.  
 DAVIS, J. D., *Trustee*, St. Louis, Mo.  
 Davis, J. M., *Fr. s* Q, Hill  
 Davis, W. F., *Fr. s* 22 Edwards Pl.  
 DAVISSON, C. J., *Instructor*, 5 Nassau St.  
 Dawbarn, W. L., *Sr. a* 116 B  
 DAWSON, E., *Preceptor*, 109 Broadmead  
 Dawson, F. T., *Jr. s* 5 S W  
 Dawson, J. C., Jr., *Fr. a* F, Hill  
 Day, H. S., *Fr. s* 15 Univ. Pl.  
 Deeves, E. P., *So. s* 7 U P  
 Dell, B. N., *Fr. a* 47 Univ. Pl.  
 Dennis, C. M., *Sr. s* 38 Wiggins St.  
 Dennis, J. S., II, *Jr. a* 42 '79 H  
 Denniston, E. E., *Jr. s* 106 P  
 Denny, A. A., II, *Fr. s* Hill  
 Deuel, L., *So. s* 3 N D  
 Devereux, A., *Fr. s* 31 Univ. Pl.  
 DeVito, D. C., *Fr. s* 8 W W  
 DEWING, H. B., *Instructor*, 32 Vandeventer Av.  
 DE WITT, J., *Trustee*, Princeton, N. J.  
 de Witt, W., *Fr. s* 39 Univ. Pl.  
 Dexter, E. C., *q* 13 Park St.  
 Diamond, D. B., *q* 36 Wiggins St.  
 Dice, A. T., Jr., *So. s* 63 U  
 Dick, H. K., *Sr. a* 4 B  
 Dickey, W. H., *Fr. a* C, Hill  
 Dickinson, C. R., *Sr. a* 104 B  
 DICKSON, B. L., *Infirmarian*, The Infirmary  
 Dieter, R. R., *Fr. s* 19 Univ. Pl.  
 Dietrich, H. E., *Sr. a* 52 P  
 Dillon, E. A., *Sr. a* 24 '79 H  
 Dillon, E. S., *So. a* 4 S E B  
 Disbrow, H. B., *So. a* 13 N D  
 Dixon, C. G., *So. s* 73 B  
 Dixon, F. E., *Sr. a* 22 '79 H  
 DIXON, J., *Trustee*, Trenton, N. J.  
 Dixon, M. M., *Fr. s* 32 Vandeventer Av.  
 Dodd, E. M., *Sr. a* 9 S W

Dodge, B., <i>Sr. a</i>	64 '79 H	Eddy, C. P., <i>Fr. a</i>	
Dodge, C. E., <i>Sr. a</i>	64 '79 H		44 Vandeventer Av.
DODGE, C. H., <i>Trustee</i> ,		Eddy, W. W., <i>So. a</i>	1 E M W
	New York, N. Y.	Edgar, J. C., <i>So. a</i>	Nassau Inn
Dodge, D. D., <i>Jr. a</i>	131 L	Edwards, P. N., <i>Fr. s</i>	26 N Ed
Dolph, H. W., <i>Sr. s</i>	72 B	Efros, J. S., <i>Jr. a</i>	29 N Ed
Don, S. M., <i>Fr. s</i>	4, Hill Annex	Egner, C., <i>Jr. s</i>	9 S D
Donovan, A. J., <i>Jr. s</i>	5 N W	Ehrehart, C. F., <i>Sr. a</i>	12 N M R
Dougherty, E. V., Jr., <i>Sr. a</i>		EISENHART, L. P., <i>Preceptor</i> ,	
	52 '79 H		22 Alexander St.
Dowd, H. L., <i>Sr. a</i>	171 L	Elder, R. D., <i>So. a</i>	9 W W
Dresser, C. K., <i>So. s</i>		Eldredge, R. R., <i>So. s</i>	3 N D
	80 Nassau St.	ELLIOT, E. G., <i>Preceptor</i> ,	16 S W
Dressler, A. J., <i>g</i>	C, B S	Elmendorf, F. W., <i>Fr. a</i>	
Drewes, H., <i>Sr. a</i>	4 S M R		8 N M R
Driver, C. W., <i>q</i>	5 S M R	Elsworth, E., Jr., <i>So. s</i>	2 M D
Drummond, J. H., <i>q</i>	19 W W	Ely, M. L., <i>Fr. a</i>	15 N W
Duane, R. B., <i>Jr. a</i>	11 '79 H	Emery, J. M., <i>Jr. a</i>	44 B
Duff, G. M., <i>g</i>		Emmons, P. K., <i>Fr. a</i>	
	Murray-Dodge Hall		Monmouth Junction, N. J.
Duff, J. M., Jr., <i>Fr. a</i>		Endicott, G., <i>So. s</i>	38 L
	60 Univ. Pl.	Ennis, H. L., <i>Fr. s</i>	
DUFFIELD, H. G., <i>Treasurer</i> ,			26 Edwards Pl.
	Univ. Offices	Entwisle, F. N., <i>Fr. s</i>	8 N R
DUGAN, R. S., <i>Ass't Professor</i> ,		Entwisle, R. M., <i>Jr. s</i>	5 W M W
	14 Prospect Av.	Erben, P. Van R., <i>Fr. s</i>	
Dulles, J. F., <i>g</i>	Paris, France		31 Nassau St.
Dunlop, W. G., <i>Sr. s</i>	9 B	Este, J. D., <i>Sr. s</i>	9 M D
Dunn, G. H., <i>Fr. s</i>		Este, S. Van N., <i>So. s</i>	2 M D
	34 Vandeventer Av.	Estes, J. B., <i>So. a</i>	4 W W
Dunne, D., Jr., <i>Fr. s</i>	Hill Annex	Evans, S. S., <i>So. s</i>	24 L
DUSCHAK, L. H., <i>Instructor</i> ,		Eves, W., III, <i>So. s</i>	1 W M W
	14 Park Pl.	Ewing, F. K., <i>Jr. s</i>	7 N D
Dusenberry, J. D., <i>Jr. s</i>	22 L	Ewing, J. N., <i>Fr. a</i>	45 Univ. Pl.
Dwight, M., <i>So. a</i>	95 B	Ewing, L., <i>So. s</i>	73 U
Dyckman, H. M., <i>Fr. s</i>		Ewing, N., Jr., <i>Sr. a</i>	
	31 Univ. Pl.		86 Nassau St.
Dyer, L. B., <i>Fr. s</i>		Farr, B. H., <i>Fr. a</i>	39 Univ. Pl.
	34 Vandeventer Av.	Farr, H. B., <i>Jr. a</i>	33 '79 H
Dyer, R. T., <i>So. s</i>	94 P	Farr, J., Jr., <i>Sr. a</i>	13 '79 H
Eadie, J. S., <i>Jr. a</i>	2 S W B	FARR, M. S., <i>Preceptor</i> ,	
Eagle, H., <i>Fr. s</i>			12 Maple St.
	28 Vandeventer Av.	FEAGLES, S. S., <i>Ass't Director of</i>	
Earle, F., <i>Jr. s</i>	5 M D		<i>the Gymnasium</i> ,
Earle, H. B., <i>Fr. s</i>	31 Univ. Pl.		The Gymnasium
Easton, G., <i>Fr. s</i>	15 Univ. Pl.	Feick, C. A., Jr., <i>Sr. a</i>	153 L
Easton, M. D., <i>Jr. a</i>	84 P	Feigenspan, E. C., <i>So. s</i>	
Eaton, W. B., <i>So. s</i>			168 Nassau St.
	90 Nassau St.	Fell, H. B., <i>So. s</i>	67 U
Ebert, St. G., <i>e</i>	6 Bank St.	Fellows, O. B., <i>So. s</i>	1 W M W
Eddy, C. N., <i>Fr. a</i>	14 Park Pl.	Felt, H. L., <i>Fr. s</i>	41 Univ. Pl.
		Fenninger, L., <i>Sr. a</i>	4 S M R

- Ferger, H. R., *Jr. s* 3 E B  
 Ferris, L., *Fr. s* G, U  
 Ferry, L. K., *Jr. a* 11 S W  
 Fiddler, E. T., *Sr. a* 8 S R  
 Field, J. T., *q* 24 P  
 Fillebrown, T. S., *So. s* 26 N D  
 Fillius, R. S., *Jr. a* 13 P  
 Finch, E. R., *Jr. a* 13 S W  
 Finck, E. M., *Jr. a* D, W B  
 Findley, E. T., *Jr. a* 10 W W  
 Findley, P. B., *Sr. s* 13 E W  
 FINE, H. B., *Dean of the Faculty,*  
 The Dean's House  
 Fine, J., *Jr. a* 111 L  
 Finney, S. G., *g* 57 B S  
 Fish, R. E., *Fr. a* Hill  
 Fish, W. N., *So. s* 10 W M W  
 FISHER, F., *Mechanician,*  
 10 Dickinson St.  
 Fisk, H. E., Jr., *Fr. s* 53 Univ. Pl.  
 Fitton, C. J., *Fr. s* 37 Wiggins St.  
 Fitton, D. W., *Fr. s* 37 Wiggins St.  
 Fitts, J. C., *Fr. a* 37 S Ed  
 Flammer, H., *So. s* 14 B  
 Flammer, W. H., *Jr. a* 21 P  
 Flanigan, E. B., *Jr. s* 115 B  
 Flather, W. J., Jr., *So. s* 14 B  
 Fleming, W. L., *Jr. a* 51 B  
 Floyd, N., II, *Sr. s* 70 P  
 Fluhart, T. L., *Sr. a* 20 Vandeventer Av.  
 FOGEL, P. H., *Instructor,*  
 6 S M R  
 Ford, F., *Fr. s* 67 Prospect Av.  
 FORD, H. J., *Professor,*  
 67 Prospect Av.  
 Forst, D. P., *Fr. a* 34 Vandeventer Av.  
 FORT, J. FRANKLIN, *Trustee,*  
 Trenton, N. J.  
 Foster, D. P., *Fr. a* P, Hill  
 Foster, G. P., Jr., *Fr. s* 168 Nassau St.  
 FOSTER, W., *Ass't Professor,*  
 121 Broadmead  
 Foster, W. E., *Sr. a* 1 E W  
 Fowler, A. L., Jr., *Fr. s* 14 Park Pl.  
 Fowler, B. M., Jr., *Fr. s* 32 Vandeventer Av.  
 Fox, E. T., *So. s* 33 '79 H  
 Fox, N. K., *Sr. a* 64 L  
 Francke, K. G. G., *Fr. s* 53 Univ. Pl.  
 Franklin, S. F., *Fr. a* 11 S Ed  
 Frantz, L., *Jr. a* 111 L  
 FRAZER, D. R., *Trustee,*  
 Newark, N. J.  
 Frazer, R. E., *Jr. a* 63 P  
 Frederick, H. A., *Jr. s* 4 W M W  
 Freese, A., *Sr. a* 39 Univ. Pl.  
 Friedmann, A. L., *Fr. s* 37 Wiggins St.  
 Fritts, F., *Jr. a* 5 S W  
 Fry, M. H., *Sr. a* 10 S E B  
 Funk, W. J., *Sr. a* 16 L  
 Gallaher, W. Q., *So. s* 51 '79 H  
 Gamble, R. A., *Sr. a* 123 L  
 Gamble, S. D., *Fr. s* 37 Nassau St.  
 Gardiner, J. F., *Fr. a* Edwards Pl.  
 Gardner, R. E., Jr., *Fr. s* 33 Edwards Pl.  
 Garmany, G. M., *Fr. a* 36 Wiggins St.  
 Garrabrant, A. A., *Fr. s* 144 Nassau St.  
 Garrett, G. H., *Jr. a* 31 P  
 GARRETT, R., *Trustee,*  
 Baltimore Co., Md.  
 Gatter, L. S., *Fr. s* 28 Vandeventer Av.  
 Gault, M., Jr., *Jr. a* 51 L  
 Gause, B. R., *So. a* 1 S W  
 GAUSS, C., *Professor,*  
 106 Fitz Randolph Rd.  
 Gay, J., *Sr. a* 86 Nassau St.  
 Geddis, R. H., *So. s* 16 E W  
 GEORGE, C. A., *Library Assistant,*  
 282 Nassau St.  
 Gerlach, A., *Jr. a* 41 B  
 GEROULD, G. H., *Preceptor,*  
 11 S W B  
 Getty, L. T., *So. s* 79 U  
 Gibbs, R. W., *Jr. s* 133 L  
 Giffin, J. F., *Jr. s* 101 B  
 Gile, R. D., *Fr. a* 15 Univ. Pl.  
 Giles, H. E., *g* 33 B S  
 Gill, H. E., *Jr. s* 11 S E B  
 Gill, J. H., *Sr. a* 53 B  
 Gillespie, T. J., Jr., *Sr. a* 73 P

- GILLESPIE, W., *Preceptor*,  
10 Nassau St.
- Gillon, W. H., *So. s* 16 W W
- Gilmore, D. P., *Jr. a* 12 S W
- Gilmore, J., *g* Philadelphia, Pa.
- Gilmour, H. C., *Sr. a* 43 L
- Gilmour, H. K., *Jr. s*  
82 Nassau St.
- Gilpin, D. N., *Sr. a* 31 Nassau St.
- Glass, J. P., *Sr. a* 52 L
- Glover, S. R., *Sr. a* 8 S R
- Godwin, F. M., *Fr. a*  
33 Edwards Pl.
- GOLDIE, G., *Director of the Gymnasium*,  
35 Univ. Pl.
- Good, W. P., *Jr. s* 97 B
- Gordon, S., *Sr. a* 7 N W
- Gordon, S. R., *Sr. s* 8 S E B
- Gordy, E. V., *Fr. s* 11 N Ed
- Gosnell, H. A., *Fr. a*  
15 Dickinson St.
- Gough, R. S., *Fr. s* 41 Univ. Pl.
- Graff, J. F., *Jr., So. a* 31 L
- Graff, P., *Sr. a* 6 N D
- Grainger, J. V., *Jr., Fr. s*  
Edwards Pl.
- Granbery, W. L., *Jr., So. a* 35 L
- Gray, E., *Jr., So. s* 94 P
- Gray, H. R., *So. s* 22 P
- Gray, S. T., *Sr. s* 104 B
- Green, B. S., *Jr., Fr. s* Hill
- Green, D. P., *Sr. a* 7 S D
- Green, E. F., *q* 22 N Ed
- Green, H., *Fr. a* 10 E W
- GREEN, H. W., *Trustee*,  
Trenton, N. J.
- Green, J. C., *g* Merwick
- Greenbaum, M., *Fr. a*  
23 Madison St.
- GRIFFIN, N. E., *Preceptor*, 14 N D
- Griffin, P. Van R., *Fr. s*  
22 Edwards Pl.
- Griffith, G. O., *g* 5 A S
- Griffith, M. D., *So. s* 10 N R
- Groeneveld, J. A., *Sr. a* 22 B
- Grossman, J., *Jr. s* 11 E W
- Gunning, H., *Fr. s* 168 Nassau St.
- Haberman, S., *So. s* 20 N Ed
- Hall, M. A., *Jr. a* 71 L
- Hallimond, W. J., *Sr. s* 83 B
- Halsey, F. D., *Fr. a* 8 S M R
- Halsey, J., *g* 33 A S
- Halsey, W. W., *Jr. s* 12 W B
- Hamilton, F. F., *So. s* 32 P
- Hamilton, S. L., *Jr. a* 11 S W
- Handy, C. W., *So. s* 14 '79 H
- Hanna, C. T., *Jr. a* 34 B
- Harding, G. J., *Jr., Fr. s* Hill
- HARMON, A. M., *Preceptor*,  
31 Bank St.
- Harper, F. W., *Fr. s* Hill
- HARPER, G. M., *Professor*,  
36 Mercer St.
- Harrer, G. A., *Jr. a*  
31 William St.
- Harris, B., *Fr. s* Hill Annex
- HARRIS, W. B., *Professor*,  
Greenholm
- Harrison, J. DeH., *Fr. a*  
33 Edwards Pl.
- Harrison, J. W., *Sr. a*  
90 Nassau St.
- Harrison, R. F., *So. s* 33 P
- Harrod, S. G., *g* 5 Nassau St.
- Hart, E. J., *Fr. s* 168 Nassau St.
- Hart, T. A., *Fr. s* 11 W W
- Hartshorne, H., *Jr., So. s* 8 E W
- Hartshorne, R., *Sr. a* 12 N W
- Harvey, C., *So. s* 33 P
- Harvey, H. M., *So. s* 40 P
- Harvey, S. G., *e* Merwick
- HASTINGS, H. R., *Preceptor*,  
35 Bank St.
- Hastings, W. H., *Jr. a* 5 S W B
- Hastings, W. S., *Jr. a* 8 E M W
- Hatfield, W. B., *Jr. a* 9 N R
- Haven, W. L., *Jr., Sr. a* 12 S Ed
- HAVRON, J., *Jr., Instructor*,  
33 S Ed
- Hawley, C., *Jr. s* 6 E M W
- Hay, J. L., *Jr., So. s* 10 L P
- Hayes, R. V., *Jr. s* 5 E W
- Hayman, H. H., *g* 21 A S
- Hays, S., *Jr. s* 32 '79 H
- Haywood, G. P., *Jr., q* 12 S M R
- Hazen, W. G., *Jr. a* 9 S R
- Heacock, C. J., *So. s* 19 M D
- Healey, J. P., *Sp.* 32 N Ed
- Hecht, E. J., *Fr. s* 37 Nassau St.
- Heck, E. B., *Fr. s*  
15 Dickinson St.
- Heermance, R., *g* Merwick
- Helm, J. B., *Jr. a* 3 E B
- Hendel, C. W., *Jr., Fr. s*  
44 Vandeventer Av.



Henderson, C. E., Jr., <i>Fr. s</i>	60 U	Houston, D. W., Jr., <i>Fr. a</i>	32 Vandeventer Av.
Henderson, G., <i>Sr. a</i>	61 '79 H	Houston, H. A., Jr., <i>So. a</i>	31 L
Henderson, W. G., <i>g</i>	C E B	Howard, L., <i>Sr. a</i>	8 S W B
HENRY, B., <i>Trustee</i> ,		Howe, L. K., <i>So. s</i>	93 P
Philadelphia, Pa.		Howell, A. R., <i>Sr. s</i>	2 S D
Henry, C. W., <i>Fr. a</i>	15 Univ. Pl.	Howell, K. B., <i>So. s</i>	22 M D
Henry, T. C., <i>Sr. a</i>	184 L	Hoyt, P. D., <i>Fr. s</i>	32 Wiggins St.
Hentz, F. W., <i>So. s</i>	72 L	Huddleson, J. H., Jr., <i>Sr. a</i>	7 S E B
Herrmann, J., <i>Jr. a</i>	13 S M R	Hughes, B., <i>So. a</i>	41 L
Herron, A. W., Jr., <i>Fr. a</i>	23 Bank St.	Hughes, F. C., <i>Fr. s</i>	10 S W B
Hetzel, W. B., <i>Sr. a</i>	15 S D	Hughes, J. F., <i>Jr. a</i>	144 Nassau St.
Heulings, L., <i>Jr. s</i>	13 S W	Hughes, W. L., <i>So. s</i>	20 N W
Heyl, E. R., <i>So. s</i>	O, U	Hulbirt, E. R., <i>g</i>	5 S Ed
Heyn, O. P., Jr., <i>Fr. a</i>	V, U	HULETT, G. A., <i>Ass't Professor</i> ,	2 Murray Pl.
HIBBEN, J. G., <i>Professor</i> ,	100 Bayard Lane	HULSIZER, W. R., <i>Assistant</i> ,	8 S Ed
Higgins, C., <i>Fr. s</i>	1 Vandeventer Pl.	Humbird, J. A., <i>Fr. s</i>	172 Nassau St.
Higgins, R. B., <i>Fr. s</i>	13 U P	Humphrey, K., <i>So. s</i>	2 E B
Hildebrant, W. G., <i>Sr. s</i>	2 E M W	HUN, J. G., <i>Preceptor</i> ,	132 Mercer St.
Hill, R. H., <i>Sr. a</i>	15 M D	HUNT, T. W., <i>Professor</i> ,	48 Library Pl.
Hills, R., <i>Jr. a</i>	5 N M R	Hunter, S. A., <i>Jr. a</i>	9 S R
Hinrichsen, A. F., <i>Jr. s</i>	9 W B	Hurlburt, P., <i>Fr. s</i>	11 U P
Hinton, S., <i>Sr. a</i>	5 N Ed	Hutcheson, W. P., <i>Sr. a</i>	15 S D
Hipple, W. J., <i>g</i>	21 Bank St.	Hutchins, J. C., Jr., <i>Sr. a</i>	74 B
Hirsch, H., <i>Fr. a</i>	18 Madison St.	Hutchinson, C. P., <i>Sr. a</i>	42 B
Hobbie, A. T., Jr., <i>Fr. s</i>	13 N W	Hutchinson, M., <i>Sr. a</i>	172 L
Hodges, F. G., Jr., <i>Fr. s</i>	80 Nassau St.	HUTSON, F. L., <i>Preceptor</i> ,	6 Mercer St.
Hodges, H. G., <i>So. s</i>	80 Nassau St.	Hutton, J. L., <i>Fr. s</i>	28 Vandeventer Av.
Hoes, G., <i>So. a</i>	8 M D	Hyde, J. L., <i>g</i>	26 A S
Hoffman, C. S., <i>g</i>	210 H S	Idema, W. D., <i>So. s</i>	40 P
Hoffstot, J. G., <i>So. s</i>	90 Nassau St.	Ill, E. W., <i>Fr. s</i>	37 Wiggins St.
Holden, A. C., <i>Fr. s</i>	33 Edwards Pl.	IMBRIE, A. C., <i>Trustee</i> ,	New York, N. Y.
Holley, L. A., <i>So. s</i>	19 M D	Imhoff, R. H., <i>So. s</i>	13 W W
Holsapple, E. T., <i>Sr. a</i>	11 P	Ingersoll, H., <i>Fr. a</i>	11 U P
Holt, H., <i>So. a</i>	24 B	Irwin, C. M., <i>Jr. a</i>	5 N R
Holton, H. C., <i>Fr. s</i>	Hill Annex	IRWIN, F., <i>Instructor</i> ,	78 Alexander St.
Hornbrook, G. L., <i>Fr. s</i>	26 Library Pl.	Irwin, H. B., <i>Fr. a</i>	18 E W
Horner, B. S., Jr., <i>Fr. a</i>	15 N W	Irwin, R., <i>Fr. s</i>	15 Univ. Pl.
Horton, D., <i>Fr. a</i>	45 Vandeventer Av.	Irwin, R. F., Jr., <i>Fr. a</i>	Edwards Pl.
Horton, R., <i>Jr. s</i>	2 B	Ivins, C. F., <i>Sr. a</i>	5 M D
HOSKINS, J. P., <i>Ass't Professor</i> ,	22 Bank St.		
House, C. L., <i>Sr. s</i>	15 S W		

- Jackman, D. K., Jr., *Jr. a* 17 N W  
 Jackson, R. L., *q* 1 S D  
 JACOBUS, M. W., *Trustee*,  
 Hartford, Conn.  
 Jahn, N. F., *Sr. s* 62 B  
 Jameson, J. T., *q* 16 Bank St.  
 Jamison, R. E., *Sr. a* 6 S D  
 Jamison, R. P., *So. s*  
 80 Nassau St.  
 Janeway, T. W., *Jr. s* 4 S R  
 Janss, H., *Fr. s* A, Hill  
 Janvier, E. P., *So. a* 10 E M W  
 Jayne, W. H., Jr., *So. a* 47 U  
 JEANS, J. H., *Professor*,  
 80 Stockton St.  
 Jenkins, H. H., *Jr. s*  
 82 Nassau St.  
 Jennings, L. D., *Sr. a* 1 W B  
 Jessup, E. C., *So. s* 65 B  
 John, R. R., *So. s* 4 E M W  
 John, W. M., *Jr. a* 183 L  
 Johnson, A. B., Jr., *Jr. s* 12 W B  
 JOHNSON, R. B. C., *Preceptor*,  
 129 Broadmead  
 Johnson, R. W., Jr., *Fr. a*  
 31 Nassau St.  
 Johnston, A. A., *g* 45 B S  
 Johnston, J. M., Jr., *So. a* 5 L P  
 JONES, A. L., *Preceptor*,  
 42 Mercer St.  
 Jones, C. W., *So. s* 92 P  
 Jones, G. M., *Jr. s* 42-46 U  
 Jones, H., *Jr. a* 151 L  
 Jones, J. C., Jr., *Sr. a* 15 B  
 Jones, L. C., *g* Merwick  
 Jones, R. C., *Fr. s*  
 34 Vandeventer Av.  
 JONES, R. W., *Instructor*,  
 24 S Ed  
 Jones, S. A., *So. s* 10 W M W  
 Jones, S. L., *Fr. s*  
 39 Vandeventer Av.  
 Judd, W. F., *Fr. a* 15 N M R  
 Kahler, F. A., Jr., *Fr. a* U, U  
 Kalbfleisch, E. D., *Fr. a*  
 31 Univ. Pl.  
 Kay, A. G., *Fr. s* 31 Univ. Pl.  
 Keen, F. A., *Sr. a* 104 P  
 Keeney, O. P., *Jr. a* 16 B  
 Keller, C. A., *g* 207 H S  
 Kelley, D. M., *Fr. a*  
 31 Univ. Pl.  
 Kelley, E. C., *Sr. s* 54 B  
 KELLOGG, G. D., *Preceptor*,  
 10 Nassau St.  
 Kellogg, J. Y., *Sr. s* 10 M D  
 Kelly, H. F., *Jr. a* 53 P  
 Kelly, W. H., *Fr. a* 24 B  
 Kendrick, L. R., *Jr. a* 13 P  
 KENNEDY, C. W., *Instructor*,  
 Merwick  
 Kennedy, G. E., *So. a* 31 S Ed  
 Kennedy, J. C., *g* 65 B  
 Kennedy, J. C., Jr., *So. a*  
 5 S E B  
 Kennedy, J. E., *So. a* 27 M D  
 Kent, P., *Sr. a* 80 P  
 Kerr, E. S. W., *Sr. a* 53 '79 H  
 Keyes, C. W., *Jr. a* 16 N W  
 Keys, W. A., Jr., *Sr. a* 122 L  
 Kiefer, K. Z., *So. s* 9 E M W  
 Kimball, H., *Sr. s* 2 S B  
 Kimball, P., *Jr. a* 14 E W  
 King, J. T., Jr., *Jr. a* 2 S W B  
 King, M. W., *Fr. a* 39 Univ. Pl.  
 King, P. M., *Fr. a* 39 Univ. Pl.  
 King, R. R., *Sr. a* 52 P  
 Kirby, W. E., *Jr. s* 14 W W  
 Kirkpatrick, J. A., *Jr. a* 17 N W  
 Kistler, R. H., *So. s* 1 E M W  
 Klipstein, E. H., *Fr. a* E, Hill  
 Knauer, C. E., *Sr. a* 71 P  
 Knight, J. B., *So. a* 7 L P  
 Knott, R. G., *Fr. a* 12 Park Pl.  
 Koch, R. R., *Sr. a* 90 P  
 Koehler, M. R., *Fr. a* 19 S M R  
 Kolb, F. W., *Sr. a* 5 S R  
 KOREN, W., *Preceptor*,  
 37 Bank St.  
 Kraetzer, A. F., *Fr. s* 18 W W  
 Krause, A. K., *g* 10 N R  
 Krauthoff, P. C., *So. a* 70 U  
 Kreckler, F. H., *g* 64 Wiggins St.  
 Kreutzberg, E. W. C., *So. s*  
 B, W B  
 Lackey, L. R., *So. s* 9 S E B  
 Laird, W. M., *So. s* 12 E W  
 Lambert, J. D. W., *So. s*  
 90 Nassau St.  
 Landes, P. S., *g* 109 H S  
 Landon, F. C., *Fr. s* 6 B  
 Lane, M. D., *So. s* 96 B

- Larkin, F. R., *So. s* 93 P  
 La Roe, W., Jr., *Sr. a* 1 S E B  
 Latta, W. J., Jr., *Sr. s* 12 B  
 Laubach, F. C., *Sr. a* 1 M D  
 Laughlin, L. I., *Fr. s* 31 Univ. Pl.  
 Lawrence, C. C., *So. s* 11 Alexander St.  
 Lawrence, D., *Jr. a* 1 W W  
 Lawrence, G. W., *q* 54 B S  
 Lawrence, R. R., *Fr. a* 25 M D  
 Lawrence, W. C., Jr., *Sr. a* 40 S Ed  
 Leake, J. B., *Jr. a* 45 U  
 Leal, G. A., *Fr. a* Edwards Pl.  
 Lee, H. A., *Jr. a* 10 N D  
 Leeper, W. F., *Sr. a* 31 P  
 Le Fevre, C. A., *Sr. a* 204 Nassau St.  
 Lehman, J., *Fr. s* 22 Edwards Pl.  
 Lewis, M. A., *So. a* 5 S E B  
 Lewis, P. S., *So. s* 11 S D  
 LIBBEY, W., *Professor*,  
 Thanet Lodge  
 Libovitz, B., *So. s* 2 N Ed  
 Lichtenstein, H. S., *So. a* 7 B  
 Limerick, F. B., *g* 43 B S  
 Lionberger, J. S., *So. a* 7 L P  
 Lippincott, J., *Sr. s* 43 P  
 Lippman, F. E., *Fr. s* 24 Edwards Pl.  
 Lit, D. J., *So. s* 186 L  
 Little, A. A., *Sr. s* 64 B  
 Livingston, R. R., *Jr. a* 11 L P  
 Lloyd, G. P., *Jr. a* 144 L  
 LONG, A. W., *Preceptor*,  
 110 Bayard Lane  
 LOOMIS, E. H., *Professor*,  
 302 Nassau St.  
 Losey, L. A., *g* 160 Mercer St.  
 Lothrop, G. V., *e* 6 Bank St.  
 Louderbough, J. J., *g* 8 N R  
 Love, W. I., *q* 2 W W  
 Lowe, L. F., *Jr. a* 4 U P  
 Luke, C. W., *Sr. a* 108 P  
 Lupfer, R. N., *Sr. a* 83 B  
 Lyman, K. R., *Fr. s* 34 Vandeventer Av.  
 LYON, C. E., *Instructor*,  
 The Bachelors  
 Lyte, T. G., *Jr. a* 81 B  
 Lytle, S. H., *So. a* 9 E M W
- McAdoo, F. H., *Jr. a* 82 Nassau St.  
 McAllister, D. H., *So. s* 42 L  
 McALPIN, C. W., *Secretary*,  
 Chancellor Green Library  
 McCarthy, L. C., *Fr. s* N. Tulane St.  
 McCarthy, W. R., *Jr. a* 81 B  
 Macartney, J. W., *So. s* 11 S D  
 McCauley, T. H., *Fr. a* 60 Univ. Pl.  
 McCAY, L. W., *Professor*,  
 21 Boudinot St.  
 McClave, B. D., *Fr. s* R, U  
 McCleary, B., *g* 20 A S  
 McCLENAHAN, H., *Professor*,  
 16 Stockton St.  
 McClintock, E. I., *Fr. a* 42 Wiggins St.  
 McCord, W. W., *Jr. a* 6 E M W  
 McClURE, C. F. W., *Professor*,  
 21 Boudinot St.  
 McClure, L. E., *Fr. s* 28 Vandeventer Av.  
 McCormick, C., *Fr. a* 31 Univ. Pl.  
 McCORMICK, C. H., *Trustee*,  
 Chicago, Ill.  
 McCready, D. B., *Fr. a* 28 Bank St.  
 McCreary, W. H., *Fr. s* 19 Univ. Pl.  
 McCrohan, J., *So. s* 6 S R  
 McDermott, M. M., *Jr. a* 92 B  
 MACDONALD, F. C., *Preceptor*,  
 The Bachelors  
 MacDonald, J. D., *Sr. s* 5 E B  
 McDonald, J. R., *Fr. s* T, Hill  
 Macdonald, R., *So. s* 152 L  
 McELROY, R. M., *Ass't Professor*,  
 86 Stockton St.  
 MacFadyen, D. M., *Jr. a* 1 N D  
 Macfarlane, H. P., *So. a* 12 S W B  
 McGee, W. L., *Sr. a* 92 Stockton St.  
 Macgregor, A., *So. s* 82 B  
 McILVAINE, W. B., *Trustee*,  
 Chicago, Ill.  
 McILWAIN, C. H., *Preceptor*,  
 24 N Ed  
 MACINNES, C. R., *Preceptor*,  
 14 Vandeventer Av.

- McIntire, H. G., *So. a*  
172 Nassau St.
- Mack, P. W., *So. s* 3 W M W
- McKaig, D., *So. s* 142 L
- Mackey, W. S., *Fr. a* 45 Univ. Pl.
- Mackie, A., *g* 201 H S
- Mackie, N. S., *Sr. a* 22 '79 H
- McKinney, J. P., Jr., *Fr. s* N, Hill
- McLanahan, A., *Fr. a* Lawrenceville, N. J.
- MACLAREN, M., *Professor*,  
16 Prospect Av.
- McLean, A., III, *So. s* 10 N M R
- McLean, A. D., *Jr. s* 27 N Ed
- McLean, W., *Fr. s* 47 Univ. Pl.
- McLeod, D. M., *So. s* 90 Nassau St.
- MACLOSKIE, G., *Professor*,  
239 Nassau St.
- McLure, C. L., *Fr. s* 20 S Ed
- McMartin, D., *g* 203 H S
- McMaster, J. B., Jr., *Fr. s* 37 Nassau St.
- McMILLAN, C., *Professor*,  
40 Bayard Lane
- McMillan, L. G., *Jr. a* 164 L
- MacMurdy, R. D., *So. a* E, E B
- McNeely, C. W., *Sr. a* 95 P
- MacNeish, H. F., *g* 32 Wiggins St.
- McPherrin, G. R., *Jr. s* 103 P
- McPherson, J. F., *Jr. a* 17 B
- McPHERSON, S. J., *Trustee*,  
Lawrenceville, N. J.
- MACRAE, D. A., *Preceptor*,  
8 Murray Pl.
- Macurda, W. H., *So. a* 11 E B
- McWILLIAMS, E. C., *Instructor*,  
60 Wiggins St.
- McWilliams, H. C., *Fr. a* 60 Univ. Pl.
- McWilliams, J. P., *Fr. s* 53 Univ. Pl.
- McWilliams, K. C., Jr., *Fr. a* 60 Univ. Pl.
- McWilliams, N. B., *Sr. a* 3 N R
- MAGIE, D., Jr., *Preceptor*,  
12 Nassau St.
- MAGIE, W. F., *Clerk of the Faculty*,  
78 Library Pl.
- MAGIE, W. J., *Trustee*,  
Elizabeth, N. J.
- Magill, E. A., *Fr. a* 21 S Ed
- Magoun, J. A. H., Jr., *Fr. a* Edwards Pl.
- MAHAFFIE, C. D., *Instructor*,  
37 Nassau St.
- Mahan, J. H., Jr., *Fr. s* Hill Annex
- Maher, A. P., *So. s* 107 P
- Mahn, B. R., *Sr. a* 46 L
- Maires, T. W., *So. a* 15 E W
- Mann, J. F., *So. a* 42 P
- Maresi, P. M., *Sr. a* 72 P
- Marlor, C. C., *So. s* K, U
- MARQUAND, A., *Professor*,  
Guernsey Hall
- Marsh, J. I., *So. a* 185 L
- Martin, A. N., *Fr. s* L, U
- Martin, A. T., *Sr. s* 44 '79 H
- Martin, J. C., *Fr. s* 41 Univ. Pl.
- Martin, J. F., Jr., *g* 11 S M R
- Martin, R. H., *Fr. a* 19 Univ. Pl.
- MARTINS, C., *Library Assistant*,  
176 The Western Way
- MARVIN, W. T., *Preceptor*,  
106 Broadmead
- MATHEWS, C. E., *Instructor*,  
166 Nassau St.
- Mathews, E. N., *Jr. s* 133 L
- Mathews, R. M., *g* 41 S Ed
- Mathey, D., *Fr. s* 47 Univ. Pl.
- Matter, M., *Sr. a* 95 P
- Matthews, J. M., *g* 6 Bank St.
- Matthews, W. S., *Fr. s* 32 Wiggins St.
- Maulsby, H. H., *Sr. a* 23 B
- Maury, J. R., Jr., *Sr. a* 31 Nassau St.
- Mayer, F. L., *Sr. a* 74 B
- Mayers, I., *So. a* 4 N R
- Mead, L. M., *So. a* 20 P
- Meaker, S. R., *So. a* 14 S D
- Mecabe, E. W., *Sr. a* 41 P
- Medina, H. P., *Sr. a* 72 P
- Medina, R. A., *Fr. s* 41 Univ. Pl.
- MEBKER, R., *Ass't Professor*,  
61 Wiggins St.
- Meese, D. O., *Sr. a* 6 S W
- Meigs, R. R., *Jr. a* 13 '79 H
- Melick, U. G., *So. a* 13 N M R

- Meredith, W. M., Jr., *So. a*  
8 Dickinson St.
- Merle-Smith, Van S., *So. a*  
14 '79 H
- Merryman, L. McL., *Fr. s*  
53 Univ. Pl.
- Mershon, S. L., III, *Fr. a*  
7 N M R
- Meseroll, J. H., *e* 34 Wiggins St.
- Messler, D. I., *g* 17 Bank St.
- Metcalf, J. R., *Fr. s* 15 Univ. Pl.
- MICHAUD, R., *Preceptor*,  
108 Mercer St.
- Mierow, F. C., *So. s* 1 N M R
- MILES, L. W., *Preceptor*,  
Greenholm
- Miller, G. N., Jr., *Jr. a* 161 L
- Miller, L. B., *So. a* 91 B
- MILLER, L. H., *Ass't Professor*,  
15 Alexander St.
- Miller, M. P., *So. s* 9 N M R
- Miller, V. C., *Fr. s* 37 Nassau St.
- Milliken, W. M., *So. a* 2 E W
- Mills, H. O., *q*  
20 Vandeventer Av.
- Mills, L. P., *Fr. s* 19 Univ. Pl.
- Milne, A., Jr., *Sr. s* 9 N W
- Minch, R. F., *So. a* 5 S W B
- Mitchell, H. H., *g* Merwick
- Mitchell, S. T., *Jr. a* 100 P
- Mitchell, U. G., *g*  
29 Vandeventer Av.
- Moffat, F. E., *Fr. a* 41 '79 H
- Moffat, J. W., *So. s* 41 L
- Monroe, A. P., *So.* 12 P
- Moock, G. W., *Fr. a* 17 S M R
- MOORE, A. A., *Preceptor*,  
120 Broadmead
- Moore, E., *Sr. s* 2 N D
- Moore, J. T., *Jr. s* 12 E B
- MOREY, C. R., *Preceptor*,  
20 Bank St.
- MORGAN, J. S., *Associate Librarian*,  
Constitution Hill
- Morrison, D. A., *q* 85 P
- Morrow, H. S., *Sr. s* 2 S W
- Morrow, S. M., *g* 303 H S
- Morse, E. C., *q* 36 Wiggins St.
- Morse, H. F., II, *So. a* 22 P
- Mosher, O. W., Jr., *Sr. a*  
6 Nassau Inn
- Mulford, R. H., *Sr. a* 32 B
- MURCH, H. S., *Instructor*, 34 L
- Mullin, J. H., *Fr. s* 37 Nassau St.
- Murray, J. C., *Fr. s*  
34 Vandeventer Av.
- Murray, J. W., *Sr. a* 2 W B
- Murray, S. B., Jr., *Sr. a* 6 N W
- Musser, J. C., *So. a* 7 E W
- Muzzey, W. M., *So. a* 1 L P
- Muzzy, H. E., *So. a* 5 E M W
- Myers, A. C., *Sr. a* 62 '79 H
- Myers, F. C., *Sr. a* 10 S E B
- Myers, W. H., Jr., *Sr. a*  
62 '79 H
- MYERS, W. S., *Preceptor*,  
26 Bank St.
- NEHER, F., *Professor*,  
148 Library Pl.
- Neilson, J. H., *Fr. s*  
Hill Annex
- Nevin, E. P., *Fr. s* 90 Nassau St.
- Nichols, C. H., *Sr. a* 10 S D
- Nicoll, W. L., *So. a* 11 L P
- Niles, F. S., *Sr. a* 7 M D
- Norman, E., *Fr. a* 2 Nassau St.
- Norris, W. M., Jr., *Jr. a*  
69 Alexander St.
- NORTHUP, G. T., *Preceptor*, 63 L
- Northwood, A., *Sr. a* 7 N R
- Norton, P., *e* 4 S W B
- Nourse, E. M., *q* 10 S M R
- Nutting, J. H., *Sr. a* 2 S W
- Ober, A. G., Jr., *Sr. a* 23 P
- Ober, B., *So. a* 51 '79 H
- Ober, D., *Sr. a* 62 P
- Ober, F. B., *Jr. a* 71 L
- Ober, J. H., *Sr. a* 62 P
- O'Donoghue, F. J., *Fr. s*  
30 N Ed
- O'Donoghue, M. T., *So. s*  
28 N Ed
- Ogden, E. M., *Sr. a* 12 B
- Ogle, K. L., *Jr. s* 154 L
- O'Hara, E. A., *So. s* 70 U
- Olcott, A. Van S., *Sr. s* 22 B
- Olcott, C. T., *So. a* 13 S D
- Olcott, G., *Sr. a* 8 S W
- Olds, E. C., *Sr. a* 2 S D
- ORMOND, A. T., *Professor*,  
276 Nassau St.
- Ormond, A. T., Jr., *Fr. a*  
276 Nassau St.

- Ormond, H. H., *Fr. s*  
276 Nassau St.
- O'Rorke, F. J. H., *Fr. a*  
14 N M R
- Orr, J., *g*  
117 H S
- Orr, R. C., *Fr. a*  
Hill
- Orrick, H. A., Jr., *Fr. s*  
19 Univ. Pl.
- Osborn, F. H., *Jr. a*  
31 '79 H
- Osborn, H. F., Jr., *Sr. a*  
162 L
- Osborne, H. B., *Fr. s*  
3 E W
- OSGOOD, C. G., Jr., *Preceptor*,  
13 L
- Osgoodby, G. M., *Fr. a*  
168 Nassau St.
- Otten, F. G., *So. s*  
20 N Ed
- Ottinger, W. N., *Sr. a*  
12 N W
- Overholt, J. D., *g*  
8 S W B
- PACKARD, W. A., *Professor*,  
College Pl.
- Page, A. S., *Jr. a*  
7 E M W
- Page, L. R., Jr., *Fr. s*  
33 Edwards Pl.
- PAHLOW, E. W., *Preceptor*,  
20 Alexander St.
- Paine, F. R., *Fr. s*  
Edwards Pl.
- PALMER, S. S., *Trustee*,  
Princeton, N. J.
- PARDOE, W. D., *Assistant*,  
10 Maple St.
- Parke, L. T., *Jr. s*  
31 B
- Parke, S. R., Jr., *So. s*  
H, U
- Parker, J. M. G., *Fr. a*  
15 Univ. Pl.
- Parker, M. M., Jr., *So. s*  
68 L
- Parrott, R. B., *q*  
47 Univ. Pl.
- PARROTT, T. M., *Professor*,  
104 Mercer St.
- Parsons, R. P., *Sr. a*  
70 P
- Passarella, M., *Sr. a*  
93 B
- PATTON, F. L., *Ex-President*,  
Springdale
- PATTON, G. S., *Professor*,  
Springdale
- Patton, R. L., *Fr. a*  
61 U
- Paul, T. S., *So. a*  
32 P
- Payne, B. B., *So. s*  
67 U
- PEABODY, R. H., *Library Ass't*  
University Library
- Peacock, C. N., *Jr. a*  
A, B
- Peacock, J. C., *Sr. a*  
19 N W
- Peacock, J. P., *Jr. s*  
5 W M W
- Peckham, H. R., *Sr. s*  
108 P
- Peirce, C. C., *Sr. a*  
11 B
- Penney, G. W., *So. s*  
181 L
- Pennington, H. P., *Jr. a*  
12 M D
- Pennington, J. A. G., *Jr. a*  
112 L
- Pennypacker, J. G., *Fr. s*  
7 Park Pl.
- Pentz, J. J., *Fr. s*  
34 Vandeventer Av.
- Percy, L. P., *Jr. a*  
Nassau Inn
- PERDUE, W. L., *Assistant*,  
11 Bank St.
- Perkins, C. B., *Fr. s*  
15 Dickinson St.
- Perrine, F. S., *Sr. s*  
23 L
- Perry, F., *So. s*  
35 P
- Peterson, R. M. T., *Fr. s*  
34 Vandeventer Av.
- Pfeiffer, T. N., *Sr. a*  
Dodge Hall
- PHILLIPS, A. H., *Professor*,  
54 Hodge Rd.
- Phillips, C. K., *Sr. a*  
10 S R
- Phillips, S., *Sr. a*  
54 L
- Phraner, S. W., *Sr. a*  
18 N W
- Pierce, A. J., *Sr. s*  
3 S W
- Pierce, W. L., Jr., *So. a*  
60 P
- Pierson, N. E., *So. a*  
3 S D
- Pinckard, P. McA., *So. s*  
12 U P
- Pitman, C. F., *Jr. s*  
F, W B
- Place, C. I., *Fr. s*  
17 S Ed
- Plager, C., *Fr. s*  
16 S Ed
- Plants, K. E., *Fr. s*  
45 Univ. Pl.
- Platt, H., *Fr. s*  
19 Univ. Pl.
- Plaut, E., *Fr. a*  
M, Hill
- Plaut, L. S., *Sr. a*  
52 L
- Plunkett, C. T., *Sr. a*  
14 L
- Pomeroy, J. C., *g*  
1 S Ed
- Pope, S. L., *Jr. a*  
20 S W
- Porter, G. J., *So. s*  
4 M D
- Porter, J. J., *So. a*  
41 '79 H
- Potter, S. C., *Jr. a*  
82 Nassau St.
- Powell, W. H., Jr., *Fr. s*  
I, U
- PRENTICE, W. K., *Professor*,  
Abroad
- Prescott, R. A., *Jr. a*  
7 N D
- Prescott, R. B., *So. s*  
73 U
- Prettyman, G. W. L., *So. s*  
96 B
- Price, J. S., *Sr. a*  
12 N D
- PRIEST, G. M., *Preceptor*,  
10 Nassau St.
- Prince, E. L., Jr., *So. s*  
81 P
- Prizer, W. M., *Sr. a*  
24 '79 H

- Pruyn, C. L., *Fr. s* 15 Univ. Pl.  
 Pryor, M. McK., *Fr. a* Edwards Pl.  
 Pyne, G. H., *Fr. a* 39 Univ. Pl.  
 PYNE, M. TAYLOR, *Trustee*,  
 Drumthwacket  
 Quinn, J. R., Jr., *Sr. a* 111 B  
 Rahill, J. W., *q*  
 1 Vandeventer Pl.  
 Ralph, H. W., *q* 4 S R  
 Ralston, L. T. M., *Fr. s* 33 Edwards Pl.  
 Raleigh, S. F., *So. a* 6 W B  
 Ranch, S. J., *Fr. s* 22 Edwards Pl.  
 Rankin, E. E., *Sr. a* 6 Nassau Inn  
 RANKIN, E. M., *Preceptor*,  
 42 Mercer St.  
 Rankin, H. E., *Sr. a* 6 Nassau Inn  
 Rankin, M. K., *q* 47 U  
 RANKIN, W. M., *Professor*,  
 5 Evelyn Pl.  
 Ransome, P. A., *q* 6 S E B  
 Read, C. N., *g* Merwick  
 Read, F. B., *fr. a* 82 Nassau St.  
 Reck, J. H., *Fr. a* 10 Madison St.  
 Reed, C. W., *Fr. s* 34 Vandeventer Av.  
 Reed, H. F., *fr. a* 8 W B  
 Reed, P. B., *fr. a* 51 P  
 Reeves, B. Van D., *So. a* 9 W M W  
 Reid, F. D., *Fr. s* 45 Univ. Pl.  
 Reignor, C. G., *So. a* 4 N R  
 Reiley, J. I. B., Jr., *Fr. a* 34 Vandeventer Av.  
 Reilly, C. G., *Fr. s* 6 B  
 Reimer, E. F., *g* 105 H S  
 Rentschler, F. B., *Sr. a* 10 S D  
 Reynolds, H., *Sr. a* 61 '79 H  
 Reynolds, M. K., *Sr. s* 6 S W B  
 Rhee, S., *g* 111 H S  
 Rheinstein, A., *So. s* 82 B  
 Rhodes, J. R., *g* 306 H S  
 RICHARDS, A. E., *Instructor*,  
 29 Alexander St.  
 RICHARDSON, E. C., *Librarian*,  
 220 Mercer St.  
 Richardson, E. J., *fr. s* 112 L  
 Richardson, L. W., *Sr. a* 11 B  
 Richardson, N. D., *q* 7 S M R  
 RICHARDSON, O. W., *Professor*,  
 25 Bank St.  
 Richardson, W. E., *fr. a* 92 B  
 Riddle, R. J., Jr., *Sr. a* 36 P  
 Ridout, S., *Fr. s* 42 Wiggins St.  
 Riegel, J., Jr., *Fr. a* 53 Univ. Pl.  
 Riggs, G., *q* 15 Univ. Pl.  
 Rising, S. M., *Sr. s* 3 S E B  
 Rives, R. B., *Fr. s* J, Hill  
 Robbins, E. H., *So. s* 9 S E B  
 ROBBINS, E. Y., *Professor*,  
 144 Library Pl.  
 Roberts, D., *Sr. a* 53 '79 H  
 Roberts, T. C., *q* 45 Vandeventer Av.  
 Robertson, G. S., *Fr. a* 8 Maple St.  
 Robinson, H. W., *Sr. a* 61 P  
 ROBINSON, P. E., *Ass't Professor*,  
 126 Broadmead  
 Roche, R. T., *So. s* 102 P  
 Rockwell, C. B., Jr., *Fr. s* 45 Univ. Pl.  
 ROCKWOOD, C. G., Jr., *Professor*,  
 34 Bayard Lane  
 Rodes, C., *fr. a* 3 E M W  
 Rodman, C. R., *g* 73 B S  
 Roe, G. R., *Fr. s* Hill Annex  
 Roebing, S., *Fr. s* Edwards Pl.  
 Rogers, C. H., *Sr. a* 109 P  
 Rogers, R., *So. a* 19 S W  
 Rogers, W. F., *g* 20 H S  
 Rolston, B., *fr. a* 102 B  
 Rolston, R. G., *fr. a* 102 B  
 Root, G. F., *So. s* 63 U  
 Root, R. K., *Preceptor*, 8 E B  
 Ropes, R., *Sr. a* 21 B  
 Ross, T. G., *So. s* 11 N  
 Ross, T. G., *So. s* 11 N W  
 Rowe, H., *So. s* 90 Nassau St.  
 Rowe, R. M., *fr. s* 131 L  
 Rowland, J. H., II, *So. s* 66 L  
 Rowland, J. E., *q* Hill  
 Rupert, W. E., *Sr. a* 9 E W  
 Rushmore, E., *Fr. s* 1 Vandeventer Pl.  
 RUSSELL, A. D., *Trustee*,  
 Edgerstoune  
 RUSSELL, H. N., *Ass't Professor*,  
 79 Alexander St.

- Russell, J. A., *Fr. a* 14 Park St.
- Salsbury, J. M., *Sr. s* 9 B
- Samuels, A. H., *Sr. a* 104 P
- Sanborne, G. G., *Jr. a* 1 N Ed
- Sanford, A. H., *Sr. a* 23 B
- Sanford, F. D., *Sr. a* 61 P
- Santmyers, S. S., *Fr. a* 1 S W
- Savage, C. C., Jr., *So. a* 5 L P
- Sawyer, H. M., *Fr. s* 31 Univ. Pl.
- Sayer, R. S., *Fr. s* Hill
- Schaff, W., *Sr. a* 142 L
- Schaller, C. O., *Fr. a* 53 Univ. Pl.
- Schauffler, H. A., *So. s* 24 M D
- Schehr, L., *Jr. a* 38 S Ed
- Schenck, A. T., *So. a* Princeton, N. J.
- Schenck, C. F., *Fr. a* 29 A S
- Schlesinger, A. L., *Fr. s* 22 Edwards Pl.
- Schoonmaker, J. M., Jr., *q* 90 Nassau St.
- Schwenke, C. H., *g* 38 A S
- Scott, C. H., *Sr. a* 56 Bayard Lane
- Scott, L. P., *Sr. a* 10 S R
- SCOTT, W. B., *Professor*, 56 Bayard Lane
- Scott, W. R., *Jr. a* 45 U
- Scull, J. I., *Sr. a* 15 N D
- Scully, R. T., *Sr. s* 162 L
- Scutt, H. B., *Fr. s* 32 Vandeventer Av.
- Seckel, A., *Fr. a* 15 Dickinson St.
- Seeley, deB. K., *So. a* 60 P
- Seeley, G. P., Jr., *Sr. s* 153 L
- Seery, I. P., *Fr. a* 37 Wiggins St.
- Seggermann, F. T., *So. s* 66 L
- Selby, E. C., *Sr. a* 54 B
- Seligman, J. B., *Fr. s* 31 Univ. Pl.
- Sellman, J. L., *So. s* 12 W W
- Semmes, R., *Fr. a* 33 Vandeventer Av.
- Serfas, L. C., *So. s* 6 S R
- Sewall, C., *Sr. a* 3 S R
- Sewall, T. G., *Fr. s* 60 Univ. Pl.
- Seyster, T. B., *Fr. s* 39 Univ. Pl.
- Shafer, S. R., *Fr. a* 19 E W
- Shand, W., *Sr. a* 6 E W
- Shaner, C. H., *Sr. s* 23 L
- Shaner, I. H., *Fr. s* 45 Vandeventer Av.
- Shaw, J. G., Jr., *Fr. s* O, Hill
- SHEA, J. B., *Trustee*, Pittsburg, Pa.
- SHELDON, E. W., *Trustee*, New York, N. Y.
- SHELDON, W. H., *Preceptor*, 29 Alexander St.
- Shellabarger, S., *Sr. a* 2 W B
- Shellito, J. C., *So. s* 4 W B
- Sherrill, H. W., *Sr. a* 6 E B
- Shimer, S. G., *Jr. a* 4 W M W
- SHIPMAN, H. R., *Preceptor*, 27 Mercer St.
- Shoemaker, J. R., *Fr. s* 15 Univ. Pl.
- Shultz, D. S., *Sr. a* 9 N R
- Shultz, L. S., *Fr. a* 15 S Ed
- Sichelstiel, A. J., *Sr. a* 71 B
- Sichelstiel, B. L., *Jr. a* 71 B
- Sides, W. R., *Sr. s* 3 S E B
- Sidwell, P., *Sr. a* 32 L
- Siefke, H., Jr., *Fr. a* 33 N Ed
- Siegling, R. C., *Jr. a* 182 L
- Sill, T. W., *q* 5 W W
- Silvers, W. R., *Sr. a* 9 N W
- SILVESTER, C. F., *Assistant*, 10 Nassau Hall
- SILVESTER, L. V., *Preparator*, Mt. Lucas
- Simons, D. MacL., *So. a* 21 '79 H
- Simpson, R. S., *g* Merwick
- Sinclair, D. B., *Jr. a* 7 E B
- SINCLAIR, W. J., *Instructor*, 7 Evelyn Pl.
- Sisson, S. A., *Fr. a* D, Hill
- Skidmore, L., Jr., *So. a* 92 P
- Sloane, G., *So. s* 36 L
- Slocum, M. S., *Jr. s* 116 B
- Small, C. R., *Jr. a* 16 N W
- Smith, C. N., *Sr. a* 3 S R
- Smith, C. P., *e* 123 L
- Smith, D. M., *Jr. a* 51 B
- SMITH, D. P., *Instructor*, 30 Mercer St.
- Smith, F. P., *So. a* 10 N W
- Smith, H. A., *Fr. a* 8 N Ed
- Smith, H. A., *Sr. a* 8 S E B
- Smith, H. B., *So. s* 181 L



- SMITH, H. S. S., *Professor*,  
14 Dickinson St.
- Smith, K. B., *Fr. s* I, Hill
- Smith, L. B., *q* 7 U P
- SMITH, N., *Professor*,  
95 Mercer St.
- Smith, P. C., *So. s* 6 W W
- Smith, R. H., *Sr. a* 15 S W
- Smith, R. H., Jr., *So. s* 9 S W B
- Smith, R. L., *So. s* 5 U P
- Smith, R. M., Jr., *Fr. s* 15 Univ. Pl.
- Smith, W. P., Jr., *Fr. s* 10 U P
- Smith, W. W., *So. s* 71 U
- SMYTH, C. H., Jr., *Professor*,  
70 Hodge Rd.
- Souder, D. M., *So. s* 15 L
- SPAETH, J. D., *Preceptor*,  
32 Edgehill St.
- Spaeth, S. G., *g* 9 N Ed
- Sparks, W. R., *So. s* 2 E B
- SPAULDING, E. G., *Preceptor*, 82 P
- Speer, G. I., Jr., *Fr. s* 26 Edwards Pl.
- Speers, T. G., *Fr. a* 47 Univ. Pl.
- Speers, W. E., *So. a* 20 P
- Speir, F. C., *Fr. a* 39 Univ. Pl.
- Spelman, W. B., Jr., *a* 17 S W
- Spence, B. J., *g* 19 Bank St.
- Spencer, C. DuP., *Sr. a* 11 M D
- SPENCER, C. W., *Preceptor*,  
114 Fitz Randolph Rd.
- Spencer, G. F. M., Jr., *a* 43 B
- Spicer, A. W., *So. s* 16 S M R
- Sprague, C. O. M., *Sr. a* 15 N D
- Spring, R. R., Jr., *a* 8 W M W
- Sprunt, J. L., Jr., *a* 17 B
- Stafford, F. H., *So. a* 24 L
- Stafford, L. H., *g* 110 H S
- Starkey, W. F., *Fr. s* 15 Dickinson St.
- Stauffer, I. Y., *Sr. s* 17 W W
- Stauffer, M. T., *q* A, E B
- Stephens, L. W., Jr., *a* 20 B S
- Stephenson, K., *Fr. s* 37 Wiggins St.
- Stern, K. G., *Sr. a* 14 N W
- Sterrett, C. H., *Fr. s* 37 N Ed
- Stevenson, P. H., *Sr. a* 6 S D
- Stevenson, W. C., Jr., *a* 42 '79 H
- STEWART, G. B., *Trustee*,  
Auburn, N. Y.
- Stewart, G. H., Jr., *q* 11 Alexander St.
- Stewart, G. S., Jr., Jr., *a* 6 W M W
- Stewart, H. J., *g* 35 B S
- STEWART, J. A., *Trustee*,  
New York, N. Y.
- Stewart, L., Jr., *So. s* 81 P
- Stewart, W., *q* 12 A S
- Stewart, W. H., Jr., *Fr. a* Edwards Pl.
- Stitt, P. H., Jr., *a* 12 S D
- Stockton, R., III, *Sr. a* 2 W M W
- Stoddard, J. K., *Fr. a* 19 Madison St.
- Stoever, J. L., *Fr. s* 19 Univ. Pl.
- Stohlmann, W. F., *Sr. a* 64 B
- Stokes, T. O., *Fr. a* 41 Univ. Pl.
- Stone, C. F., *Fr. s* 11 Chambers St.
- Stover, J. D., *Fr. a* 18 S M R
- Strange, R., *Sr. a* 3 N R
- Straus, H. G., Jr., *a* 4 Nassau Inn
- Straus, N., Jr., *q* 4 Nassau Inn
- STROMQUIST, C. E., *Preceptor*,  
49 Wiggins St.
- Strong, L. P., *Sr. s* 3 S M R
- Strong, W., *So. s* 23 '79 H
- Stryker, L. C., Jr., *a* 3 W B
- STUART, D. C., *Instructor*,  
182 The Western Way
- STUART, D. R., *Professor*,  
101 Broadmead
- Stukes, S. G., *g* 63 B S
- Stump, H. A., Jr., *q* 185 L
- Sullenberger, L. P., *g* 67 B S
- Sullivan, J. W., *g* 404 H S
- Surbrug, J. W., Jr., *Sr. s* 9 M D
- Sutter, D., Jr., *a* Hill
- Sutton, J. S., Jr., *s* 50 P
- Swann, T., *Fr. s* 19 Univ. Pl.
- Sweeny, H. J., *Fr. a* 35 N Ed
- SWIFT, E., *Instructor*,  
23 Madison St.
- Swift, J. A., *Fr. s* 41 Univ. Pl.
- Taggart, W. L., *So. s* 21 L
- Takahashi, R., *g* 95 Mercer St.
- Talbott, H. S., *So. s* 91 B
- Talcott, W. F., Jr., *a* A, B
- Tams, J. E. M., *So. a* 5 B

- Tarbell, F. S., *So. s* 73 U  
 Taylor, A. A., *Fr. a* 2 L P  
 Taylor, A. K., *So. s* 20 W W  
 Taylor, G., Jr., *Sp.* 1 U P  
 Taylor, J., *Fr. s* 52 B  
 Taylor, J. S., *Jr. a* 7 W M W  
 Taylor, L. A., *So. a* 5 W B  
 Taylor, W. B., Jr., *q* 408 H S  
 Terry, D. J., *Fr. a* 7 S W  
 Terry, J. L., *Fr. a* 36 Wiggins St.  
 THAYER, H. W., *Preceptor*, 30 Mercer St.  
 Thebaud, P. L., *Fr. s* Edwards Pl.  
 Thibaut, F. J., *Jr. a* 33 L  
 Thomas, A. L., *Fr. a* 22 Vandeventer Av.  
 Thomas, E. W., *q* 44 Vandeventer Av.  
 Thomas, G. C., Jr., *So. s* 21 '79 H  
 Thomas, I., *Sr. a* 9 E W  
 THOMAS, P., *Instructor*, 5 Nassau St.  
 Thomas, R. L., *Sr. a* 9 S W  
 Thompson, E. I., *Fr. s* 15 Dickinson St.  
 THOMPSON, H. B., *Trustee*, Greenville, Del.  
 THOMPSON, H. D., *Professor*, 11 Morven St.  
 Thompson, J. F., *So. a* 95 B  
 Thompson, J. M., *g* 309 H S  
 Thompson, J. M., *Jr. a* 37 Nassau St.  
 Thompson, J. S., Jr., *q* 98 B  
 Thomson, W. K. C., *Jr. a* 315 H S  
 Thorburn, G., *Sr. a* 21 B  
 Tibbott, F. M., *Sr. s* 106 P  
 Tiemann, J. L., *Jr. a* 1 B  
 Tift, H. N., Jr., *Fr. s* 33 Edwards Pl.  
 Tilton, G. A., *q* 12 N Ed  
 Tilton, H. S., *So. s* 3 W W  
 Tobey, A., *Fr. s* Edwards Pl.  
 Todd, C. S., *Fr. s* 53 Univ. Pl.  
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